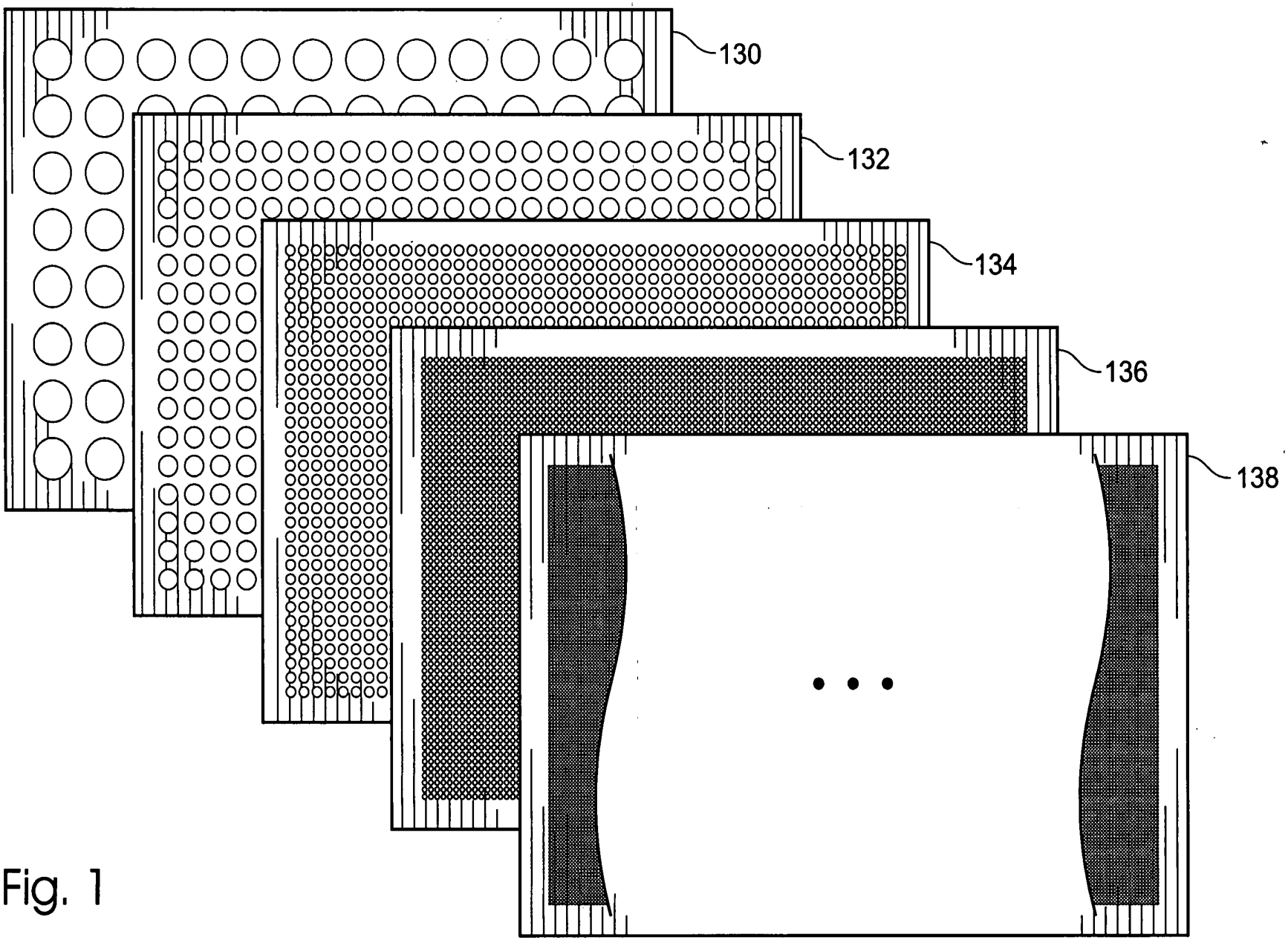


Fig. 1

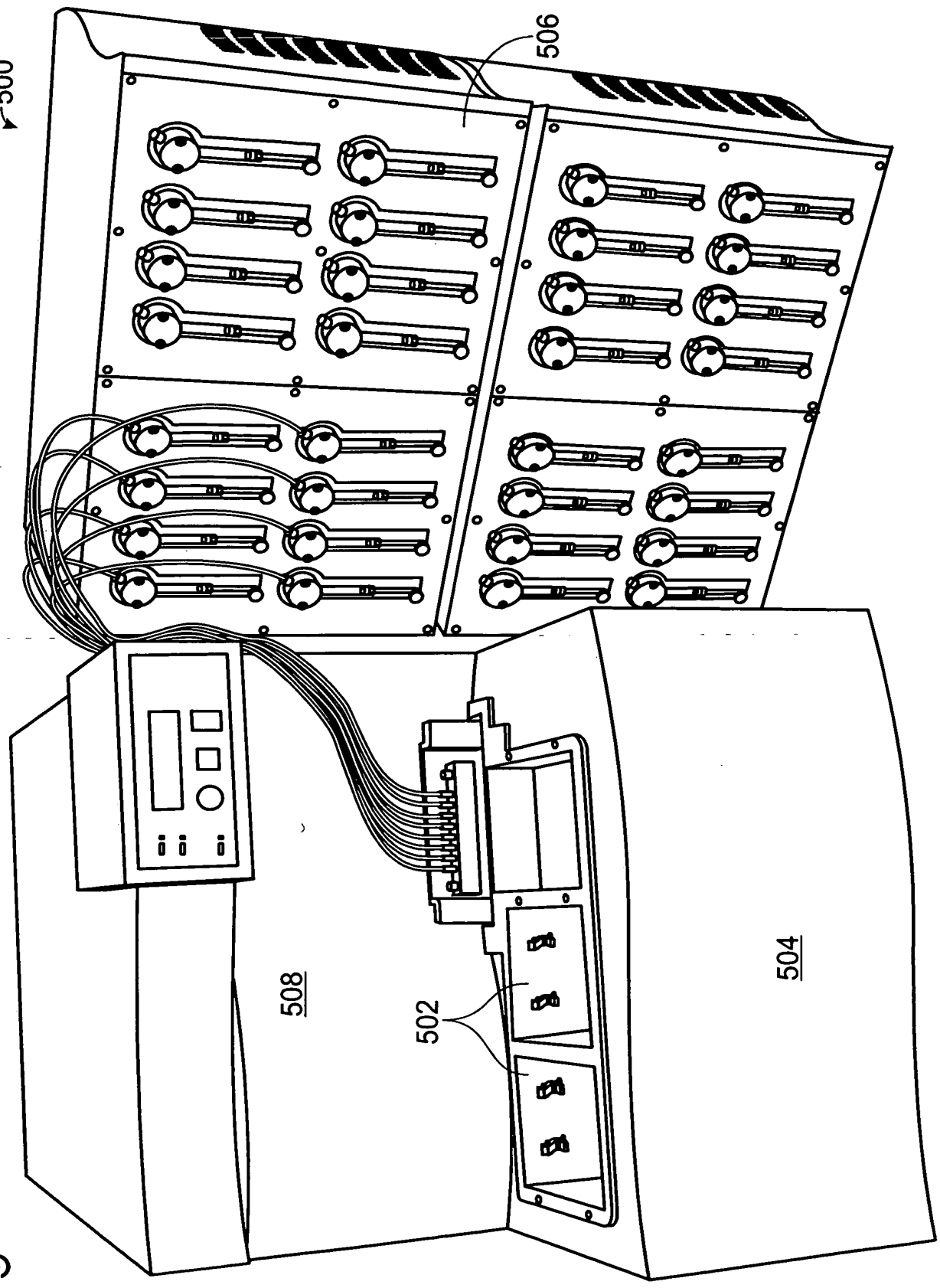
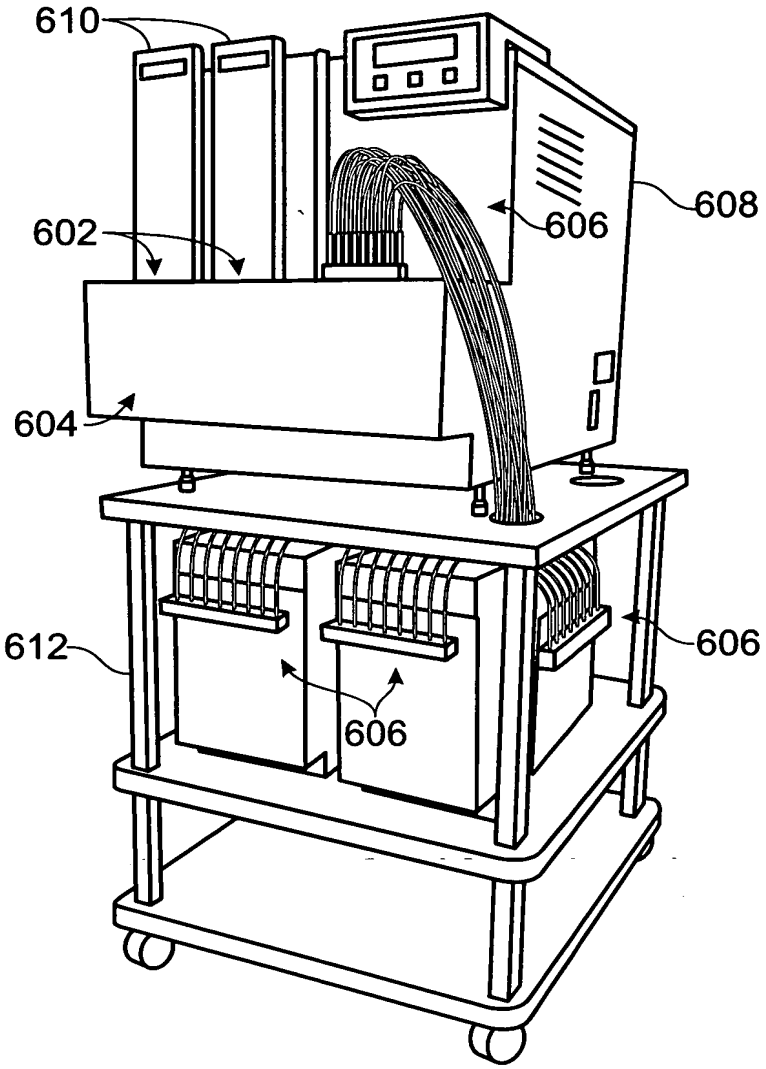


Fig. 2

Fig. 3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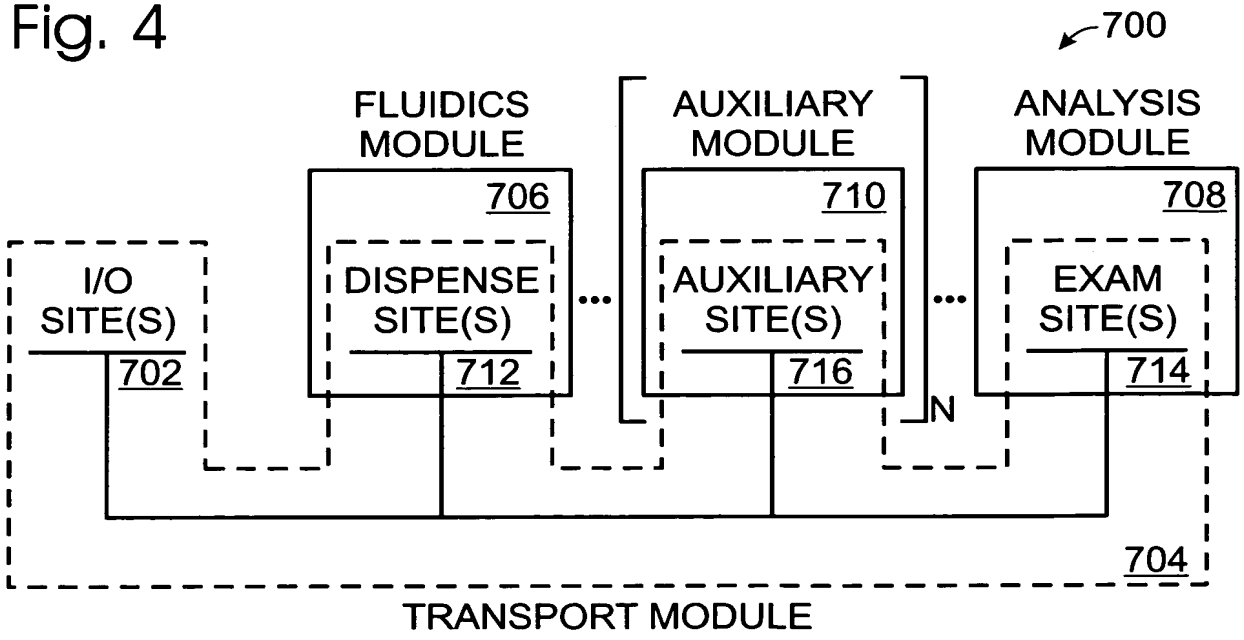
600
602
606
608
604
612
606
606

Fig. 4


700
FLUIDICS MODULE
706
DISPENSE SITE(S)
712
AUXILIARY MODULE
710
AUXILIARY SITE(S)
716
N
ANALYSIS MODULE
708
EXAM SITE(S)
714
I/O SITE(S)
702
704
TRANSPORT MODULE

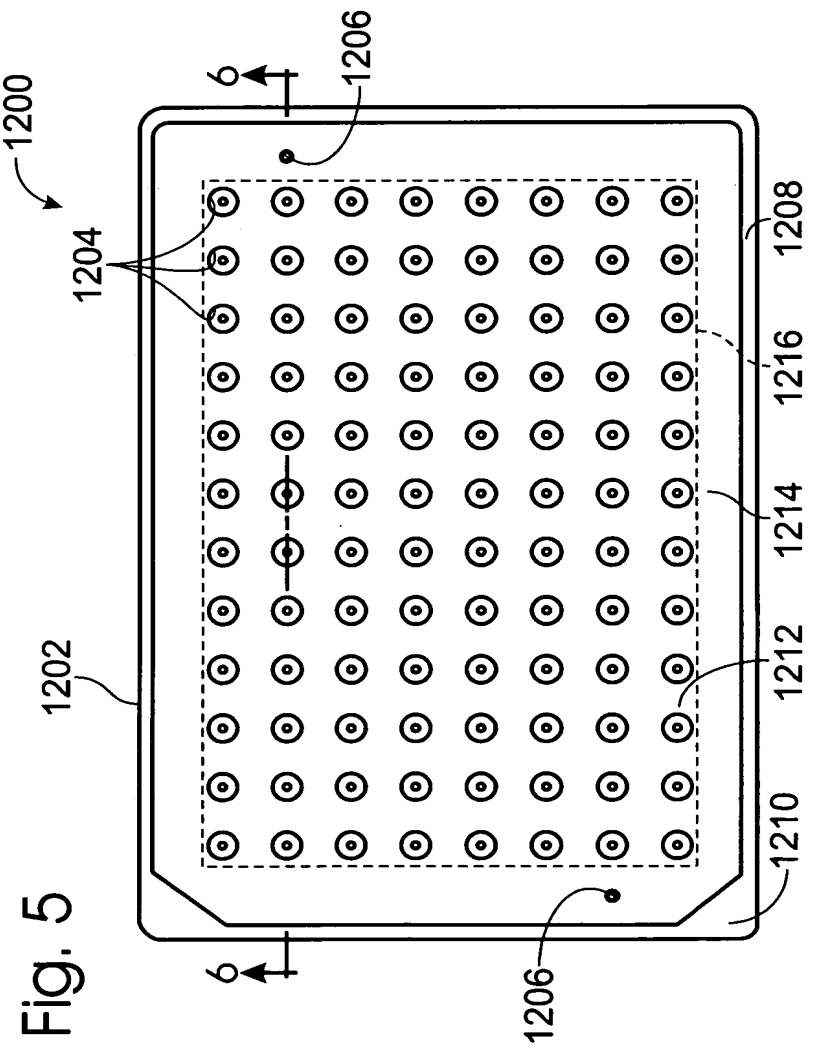


Fig. 5

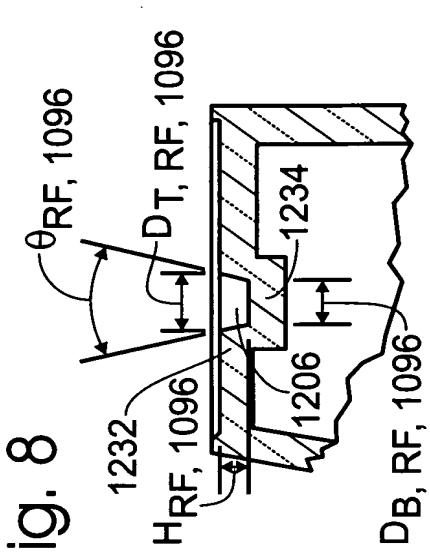


Fig. 8

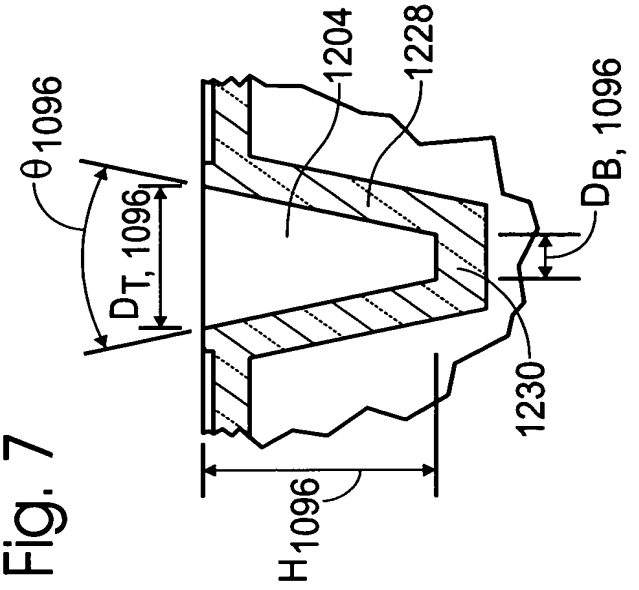


Fig. 7

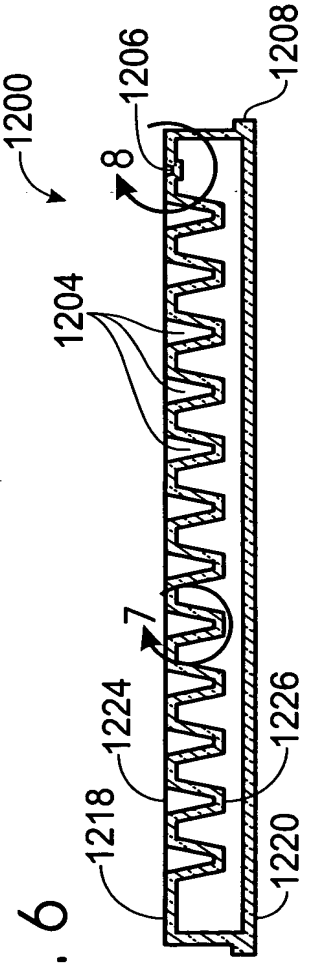


Fig. 6

Fig. 9

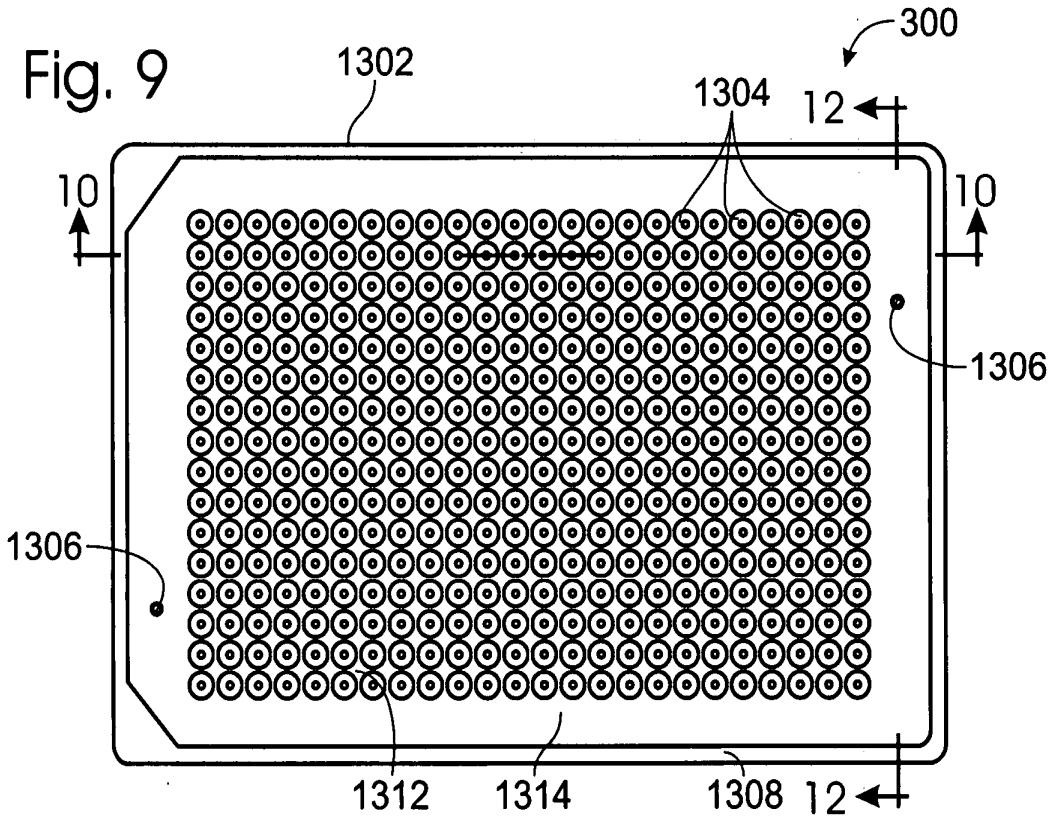


Fig. 10

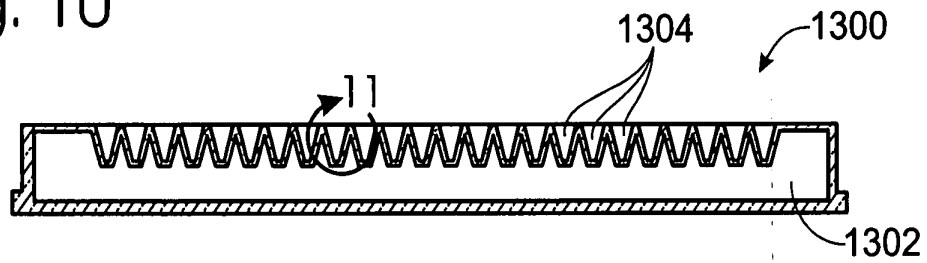


Fig. 12

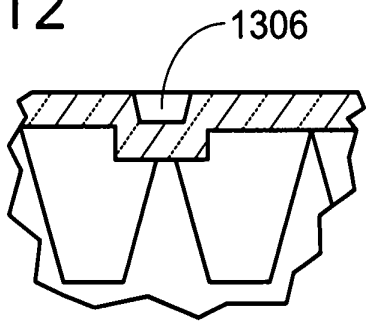


Fig. 11

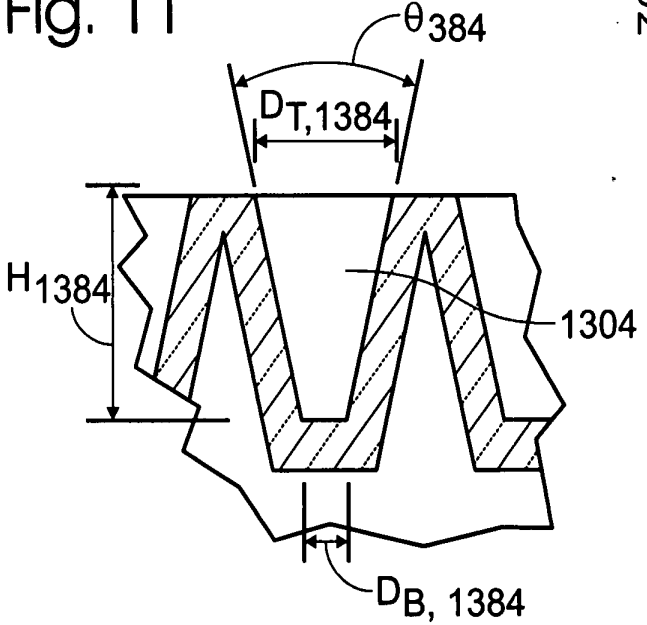


Fig. 13

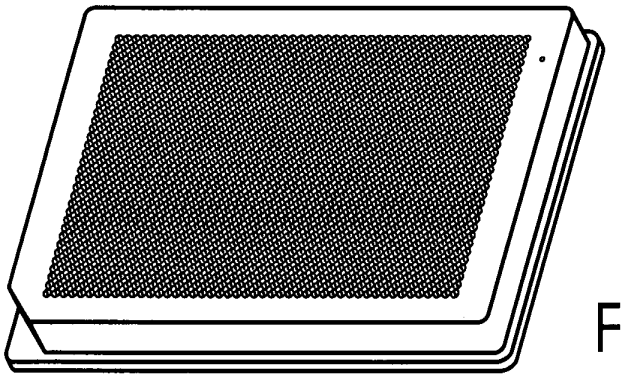


Fig. 14

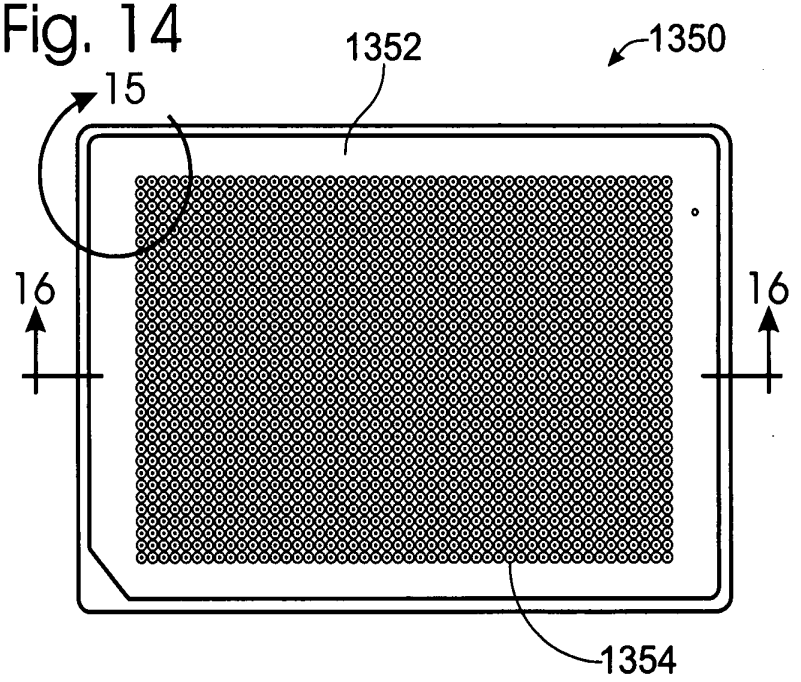


Fig. 15

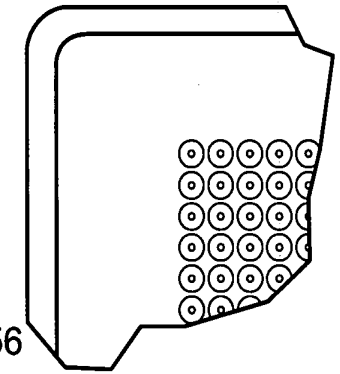


Fig. 17

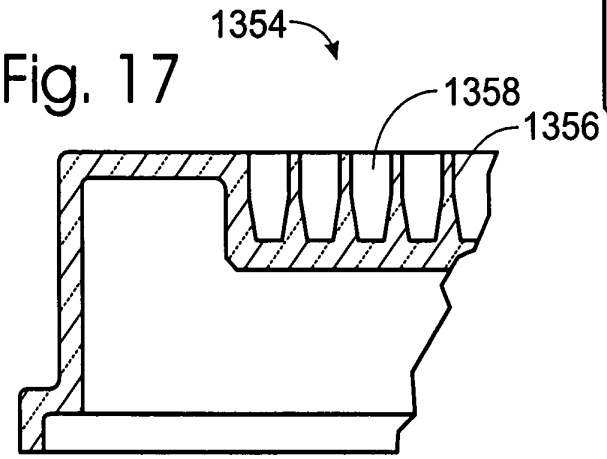
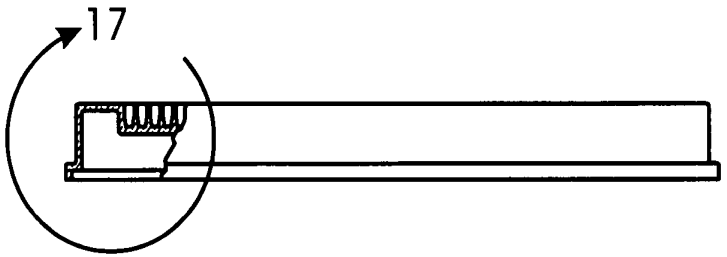


Fig. 16



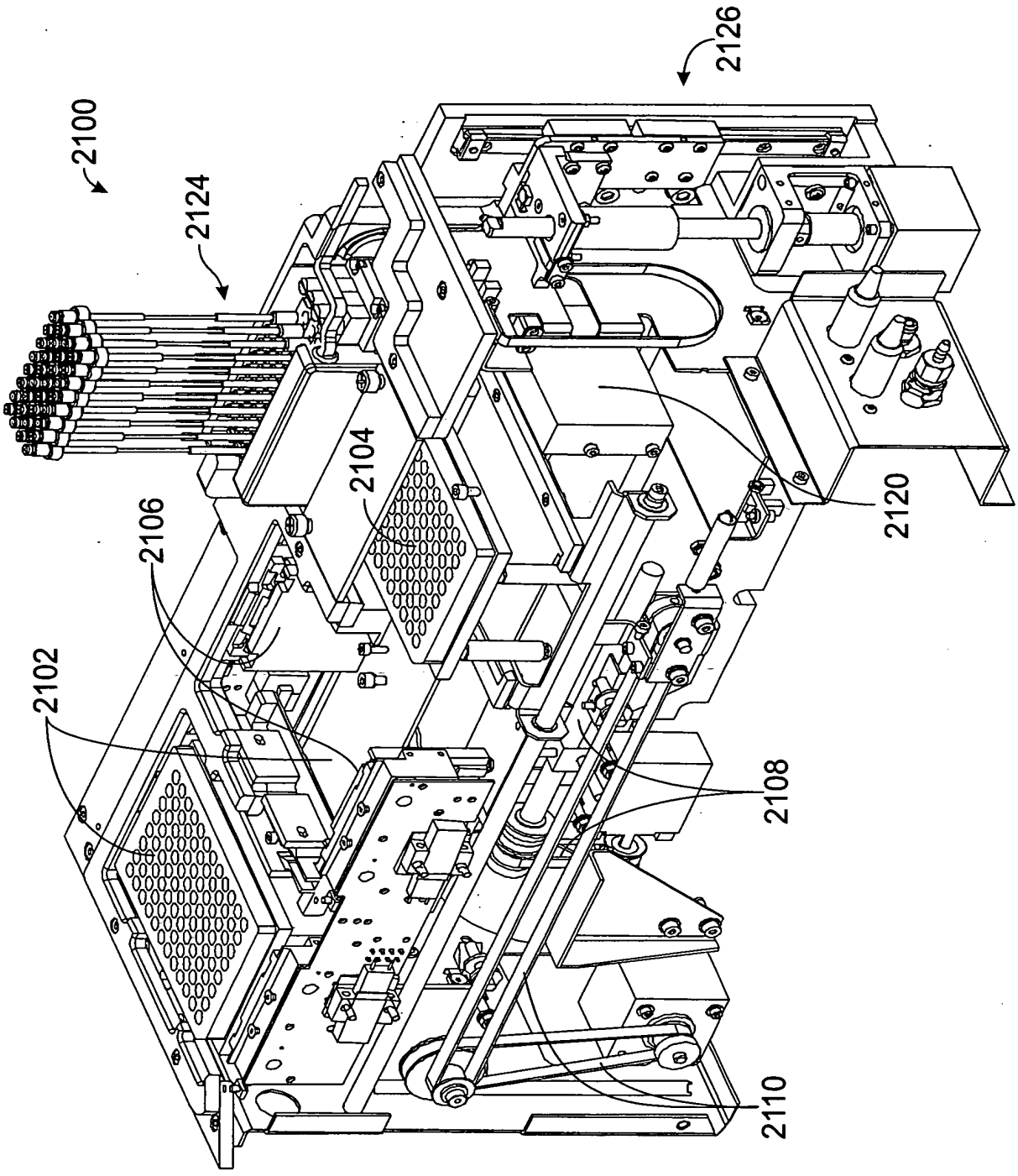


Fig. 18

Fig. 19

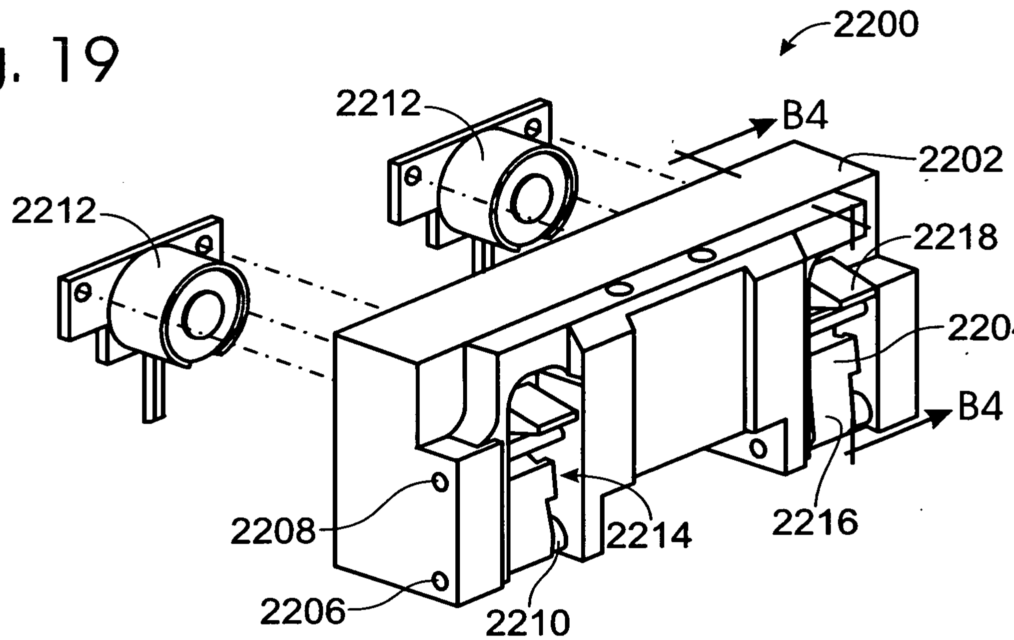


Fig. 20

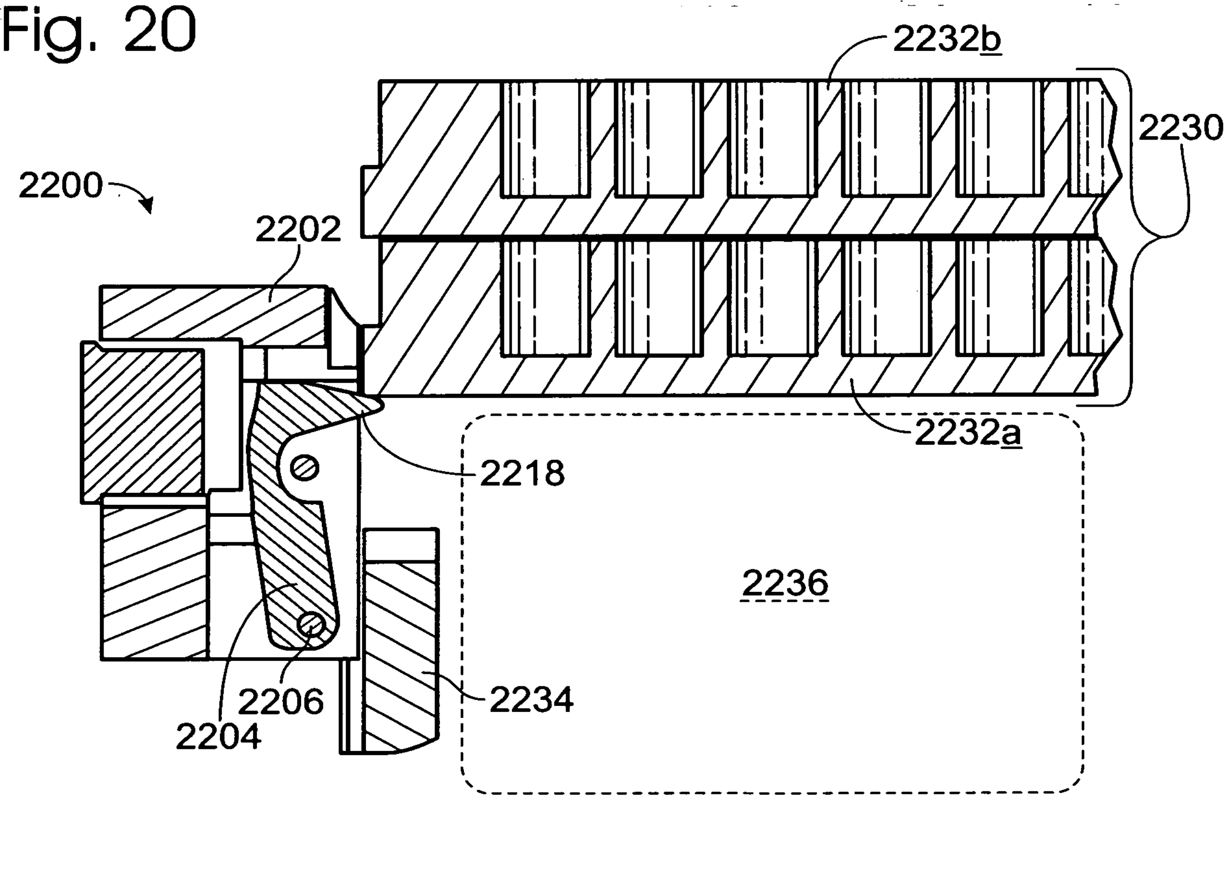


Fig. 21 (INPUT CYCLE)

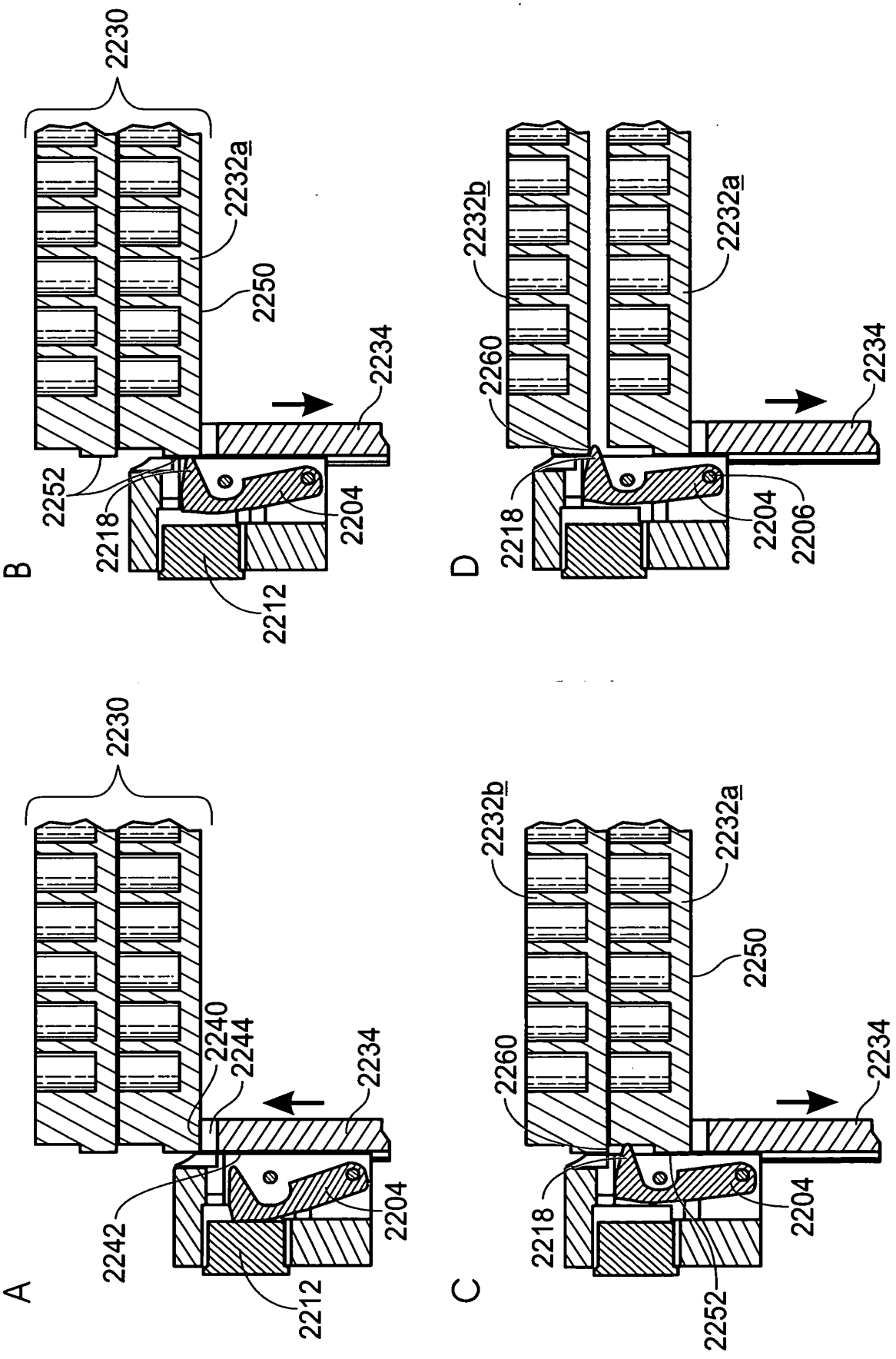


Fig. 22 (OUTPUT CYCLE)

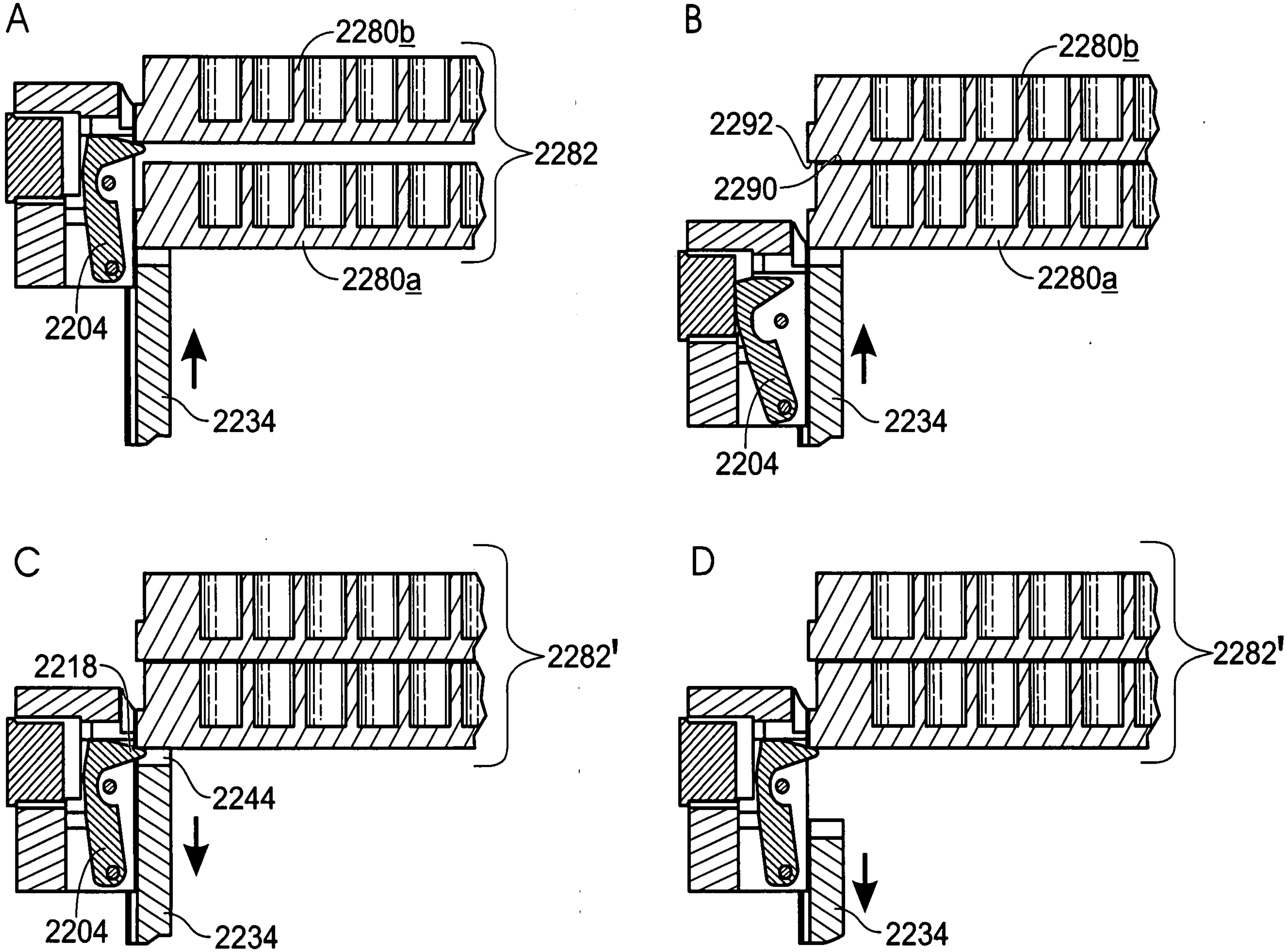
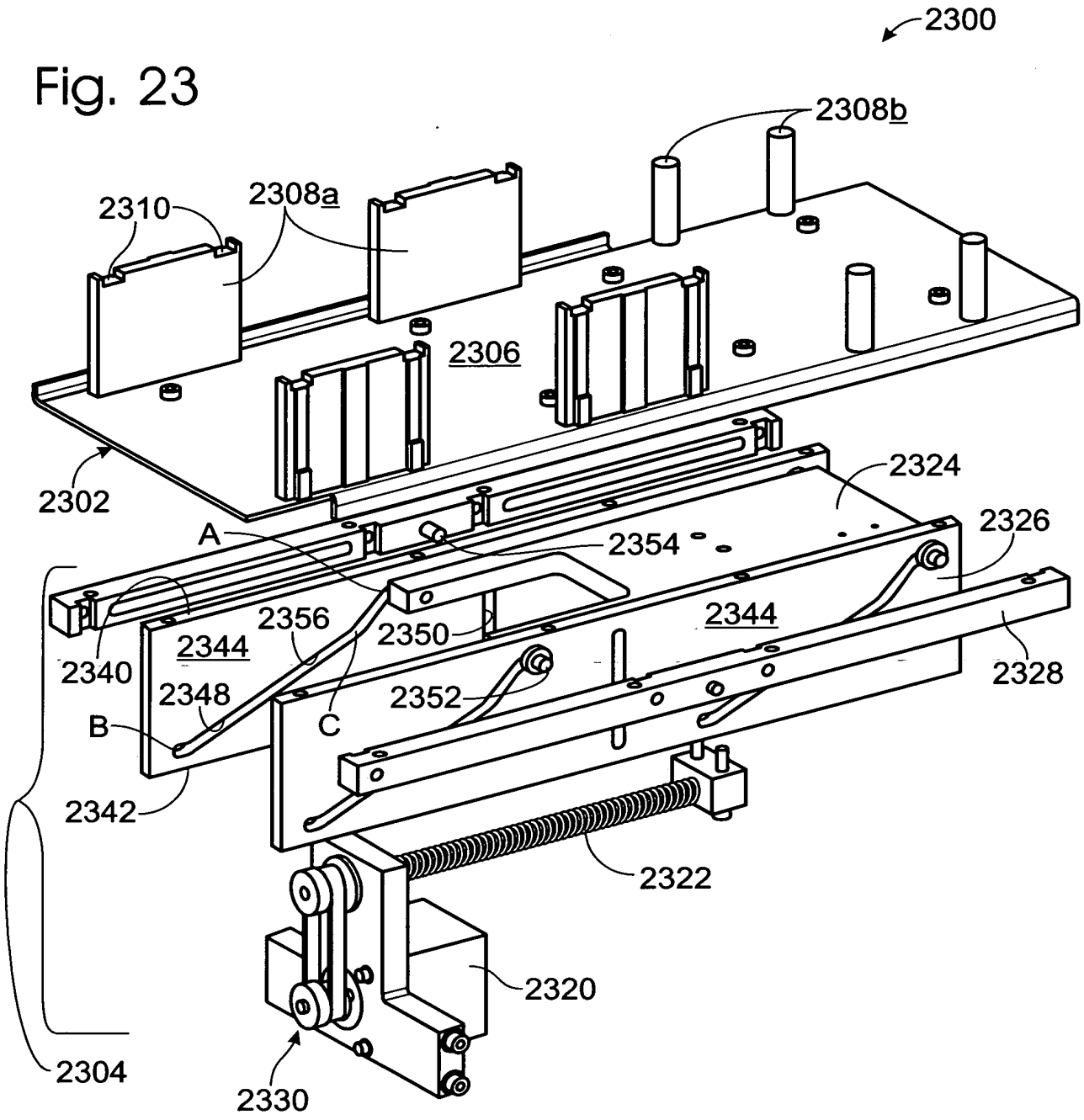


Fig. 23



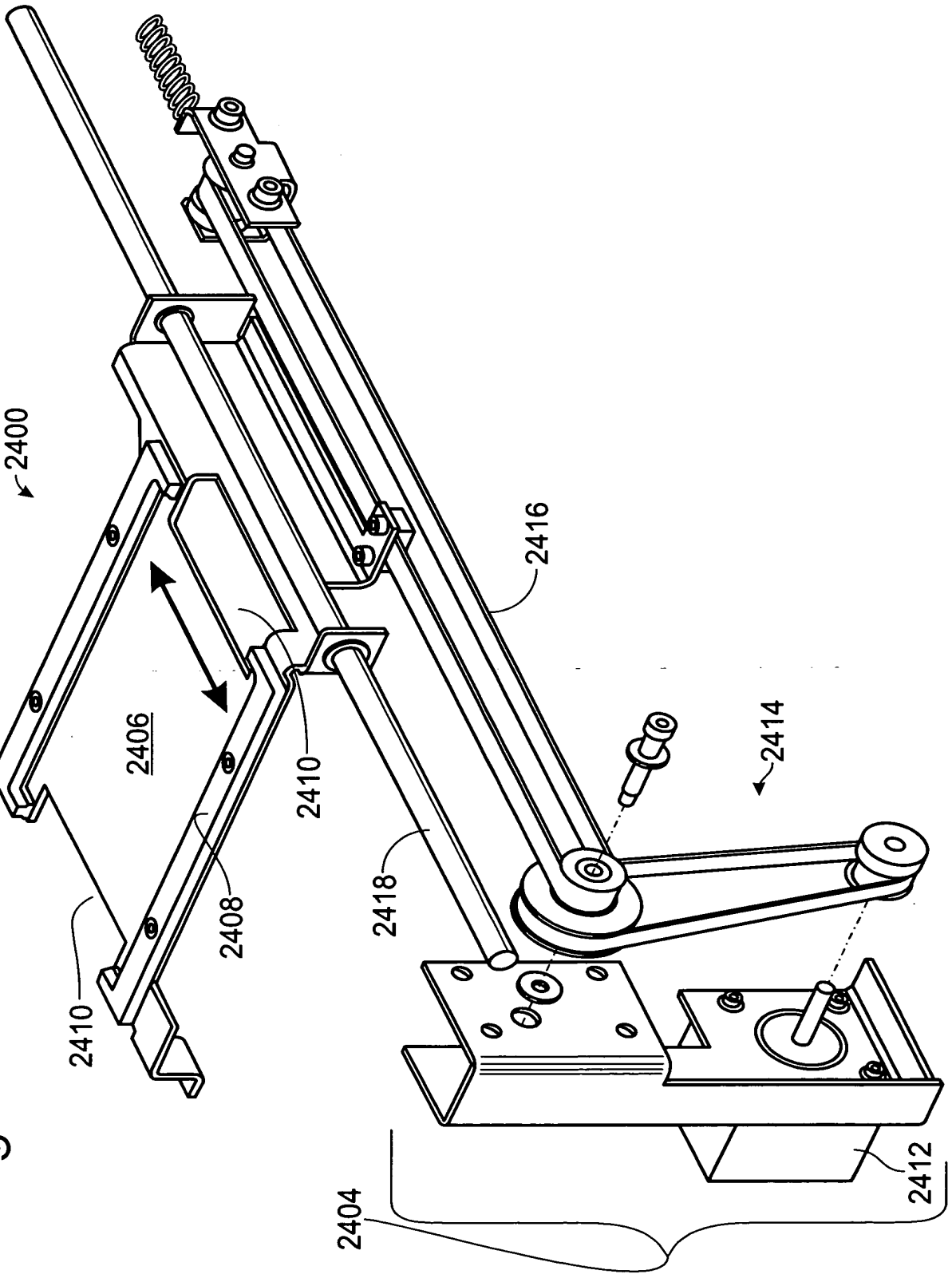


Fig. 24

Fig. 25

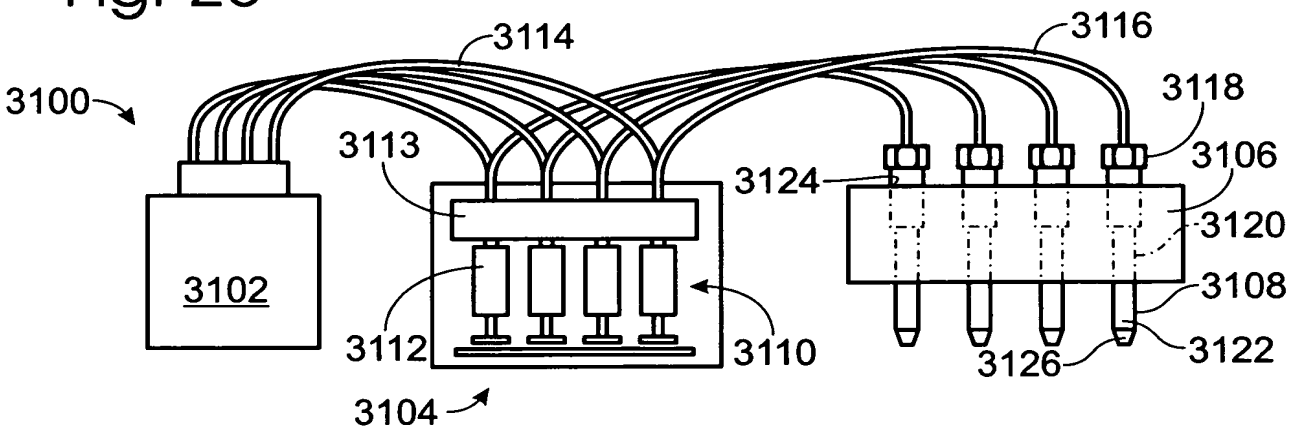


Fig. 26

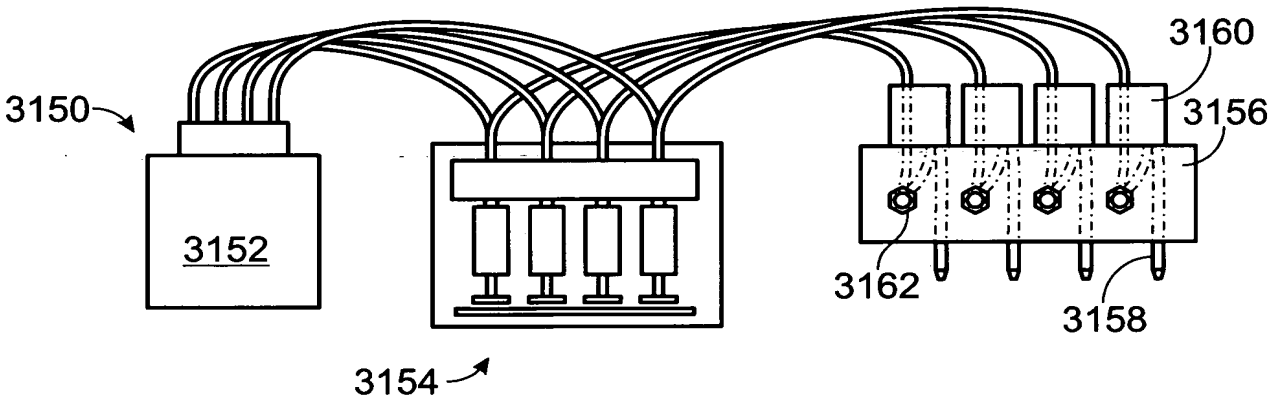


Fig. 27

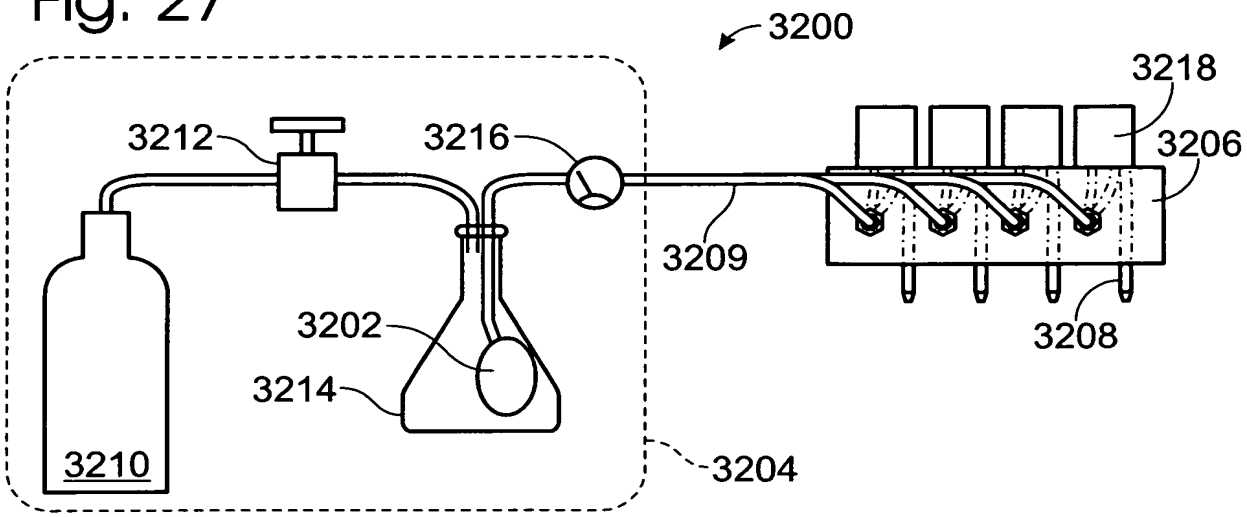


Fig. 28

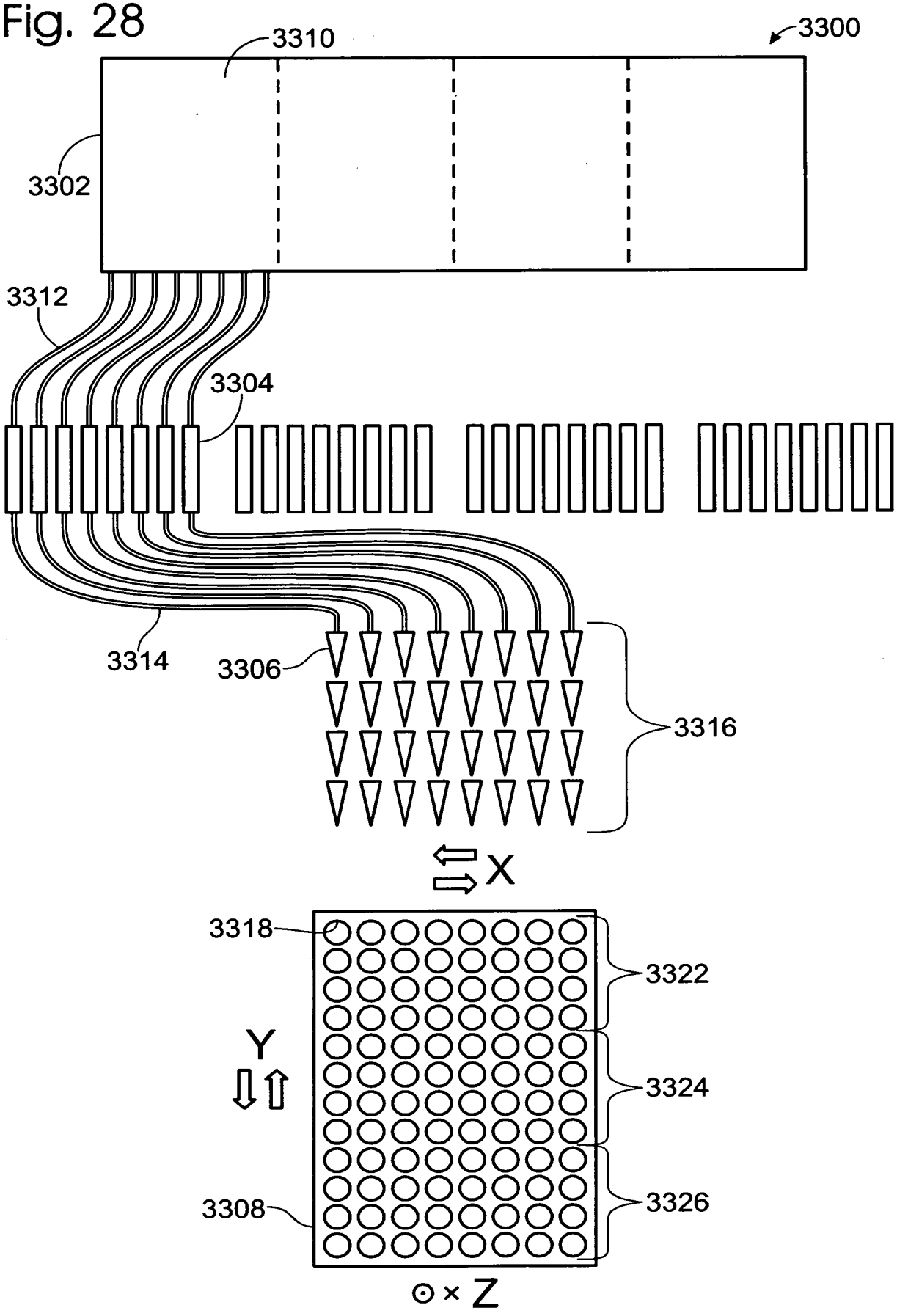

3310
3300
3302
3312
3304
3314
3306
3316
X
3318
3322
Y
3324
3308
3326
⊙ × Z

Fig. 29

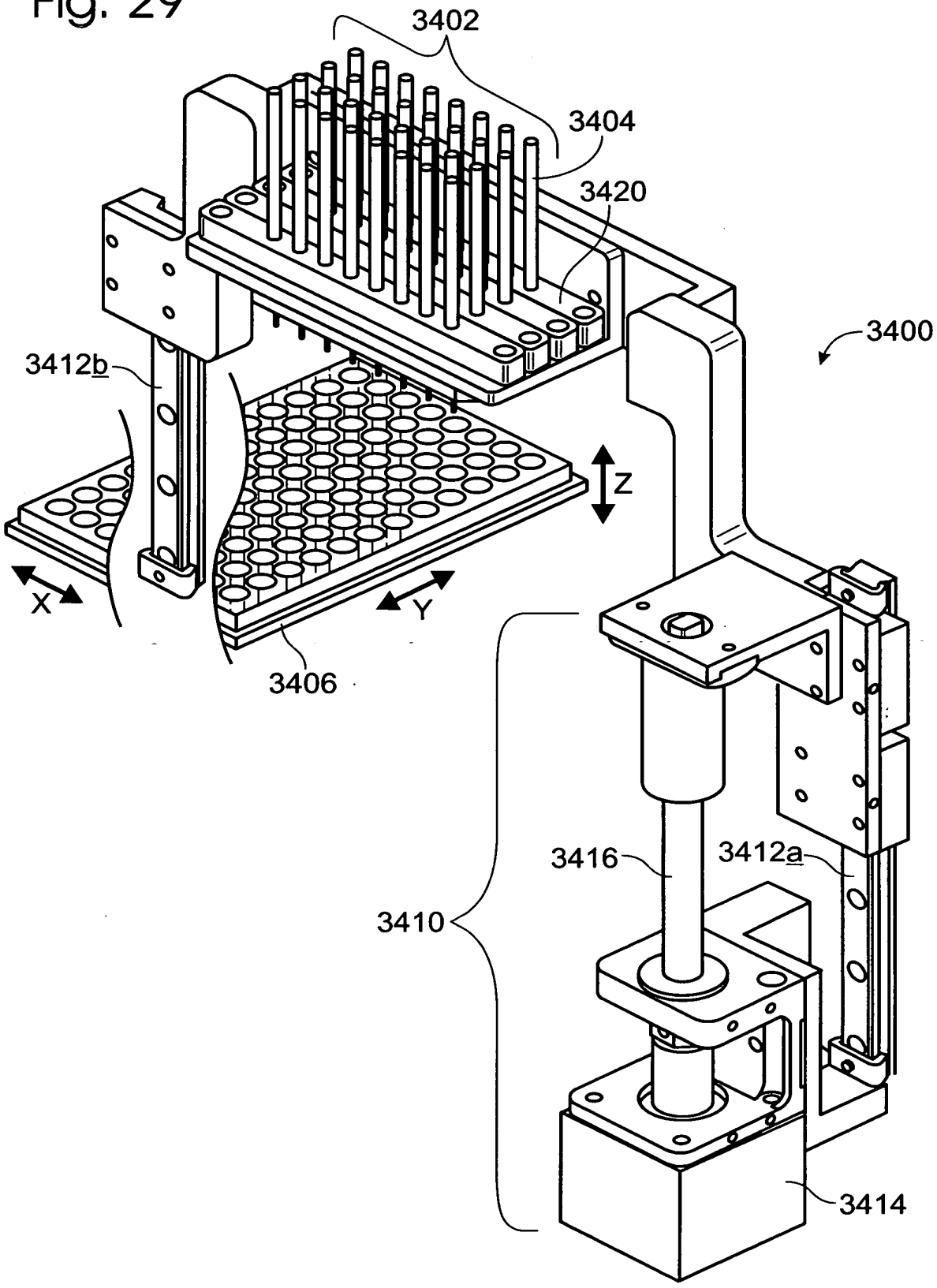
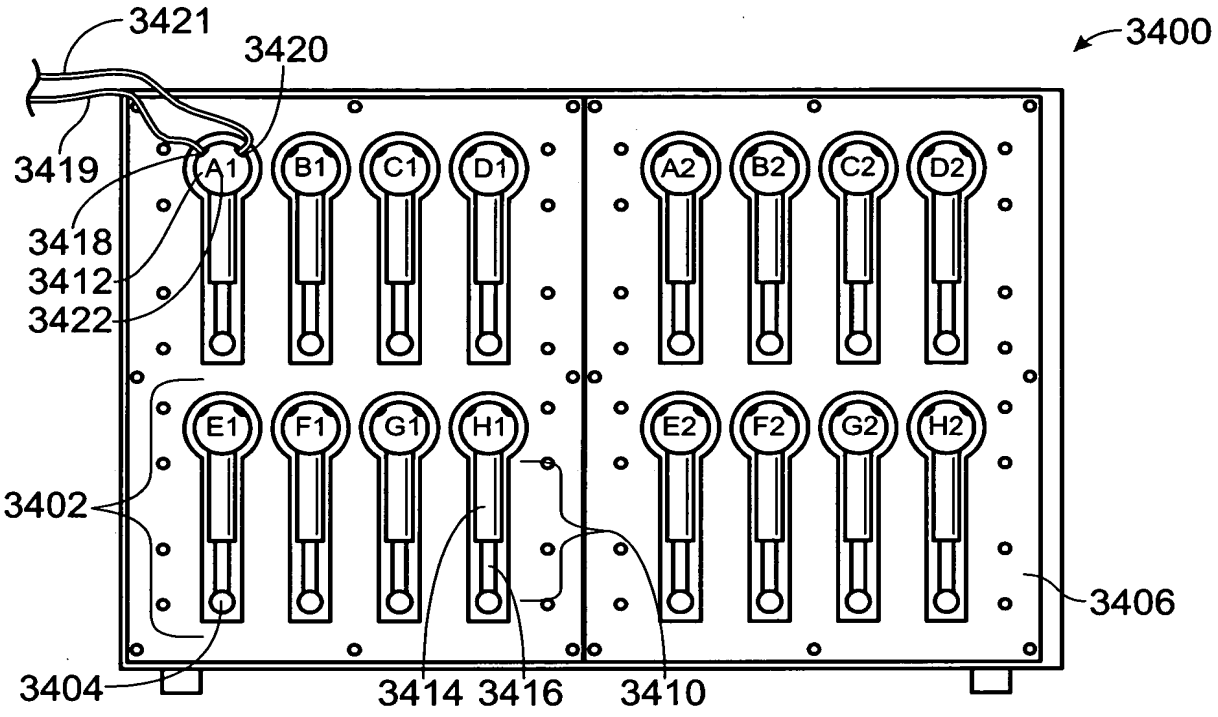


Fig. 30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3420
3400
3419
A1
B1
C1
D1
A2
B2
C2
D2
3418
3412
3422
E1
F1
G1
H1
E2
F2
G2
H2
3402
3406
3404
3414
3416
3410

Fig. 31

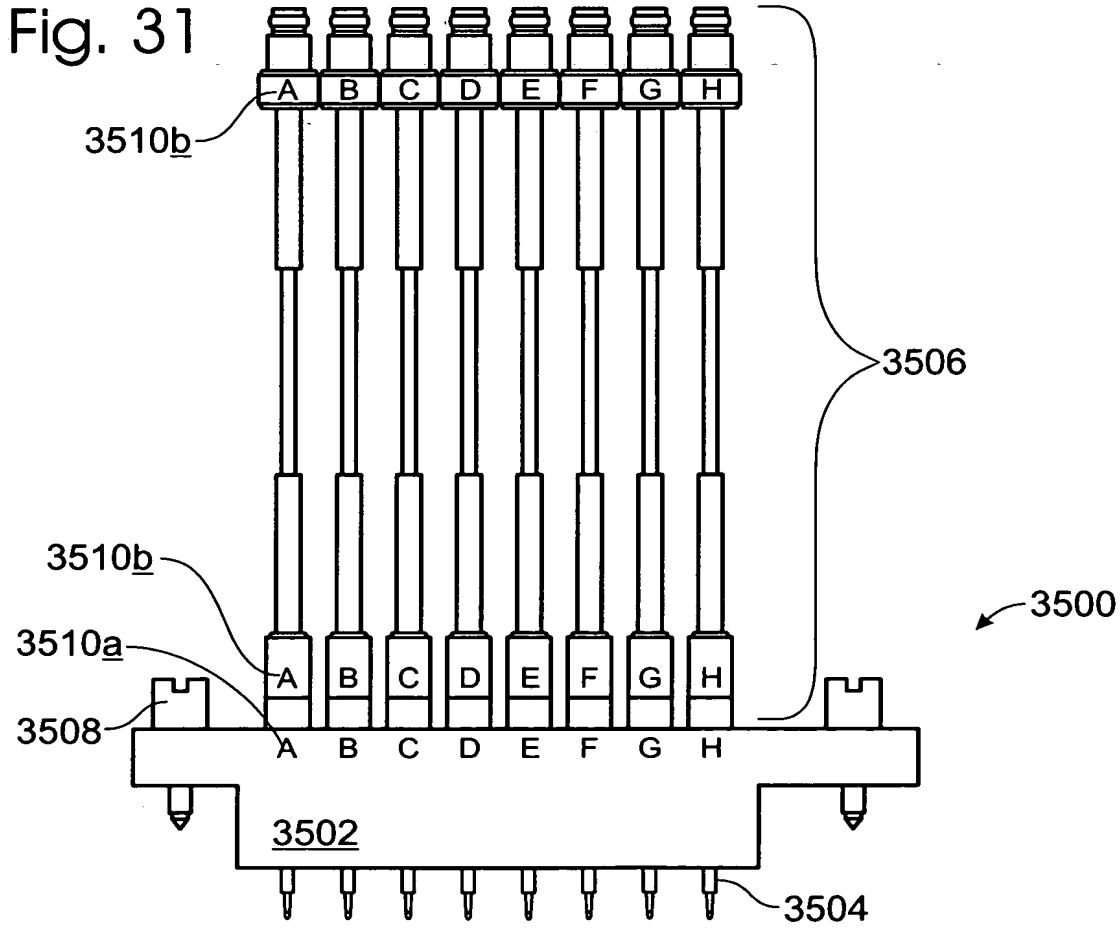
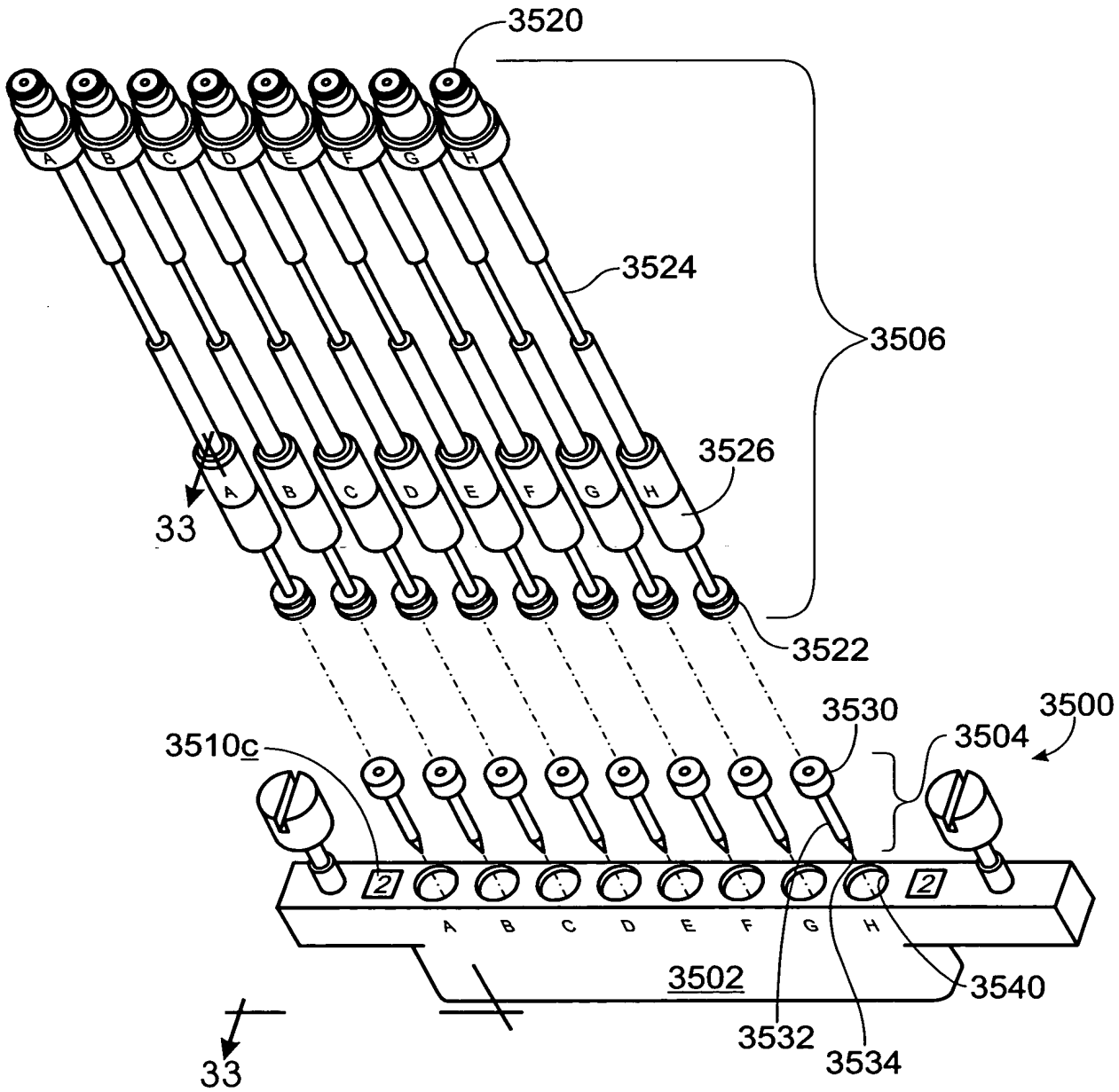

A
B
C
D
E
F
G
H
3510b
3506
3510b
3500
3510a
3508
3502
3504

Fig. 32


3520
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3526
3522
33
3530
3500
3504
3510c
3502
3540
3532
3534
33

Fig. 33

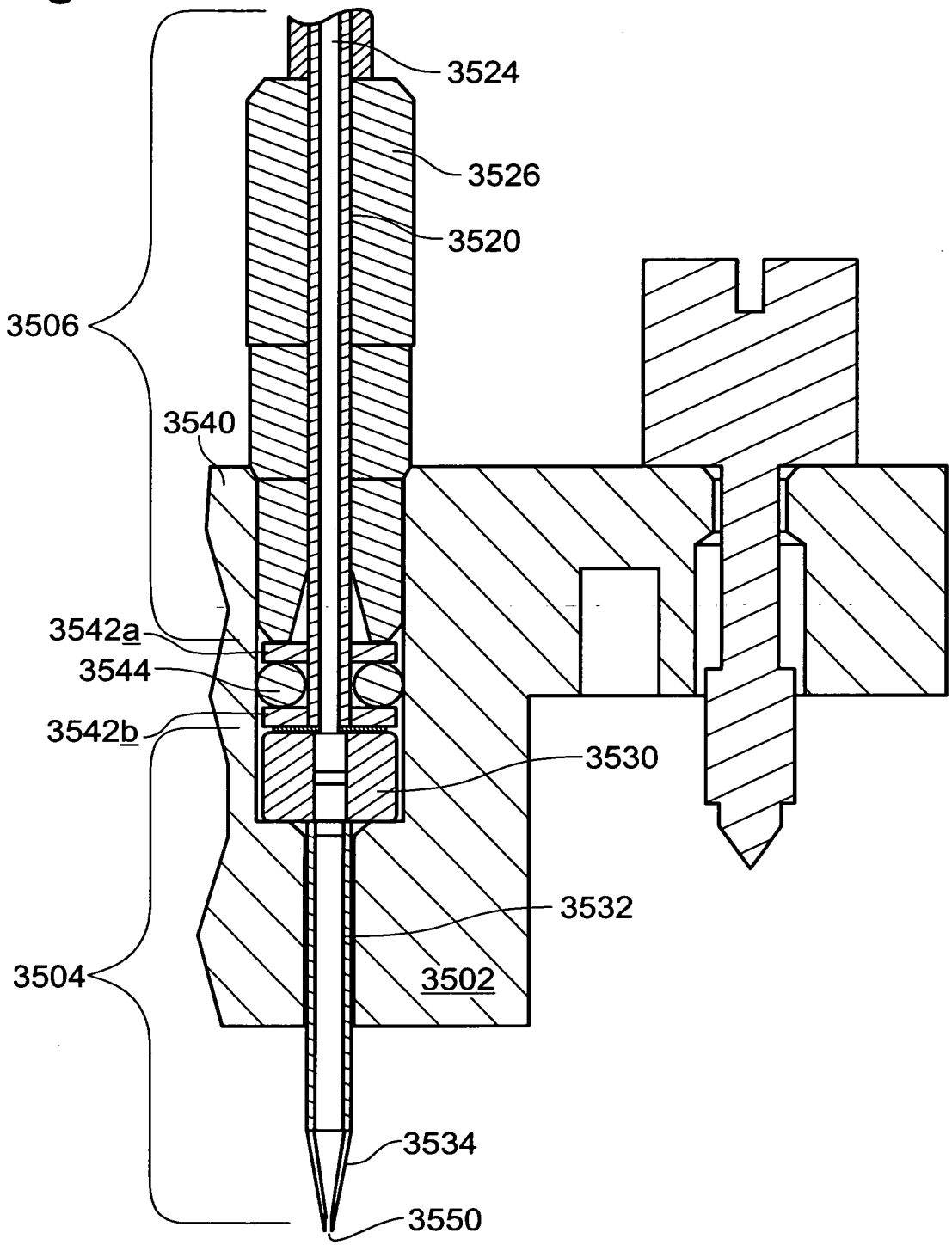


Fig. 34

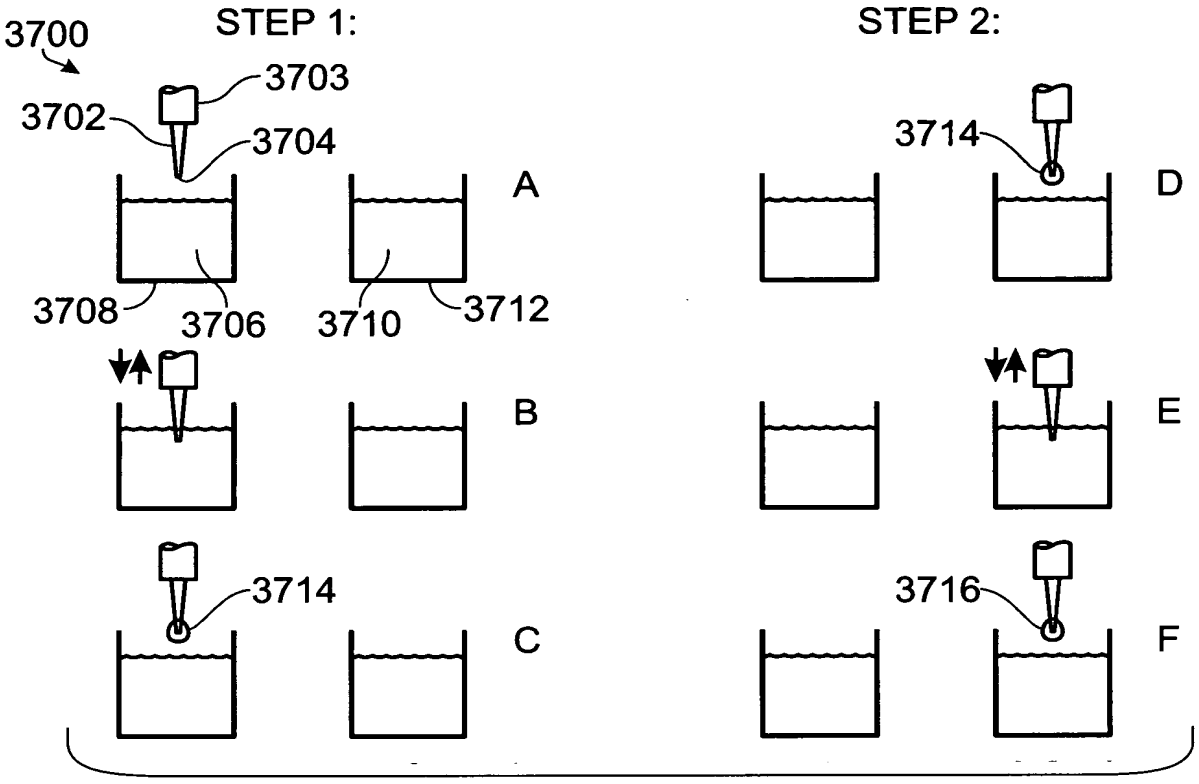

3700
STEP 1:
STEP 2:
3703
3702
3704
3714
A
D
3708
3706
3710
3712
B
E
3714
3716
C
F

Fig. 35

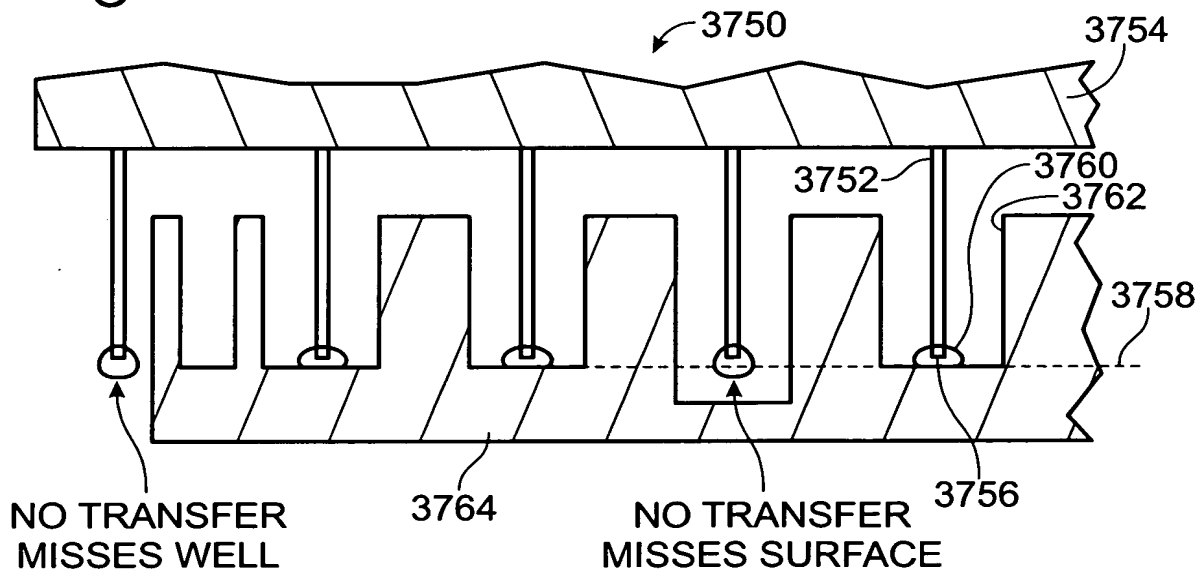

3750
3754
3752
3760
3762
3758
3764
3756
NO TRANSFER
MISSES WELL
NO TRANSFER
MISSES SURFACE

Fig. 36

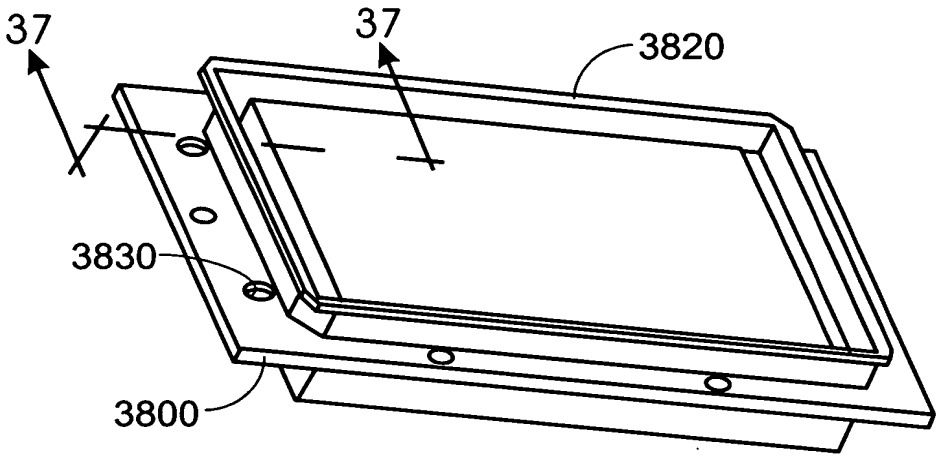
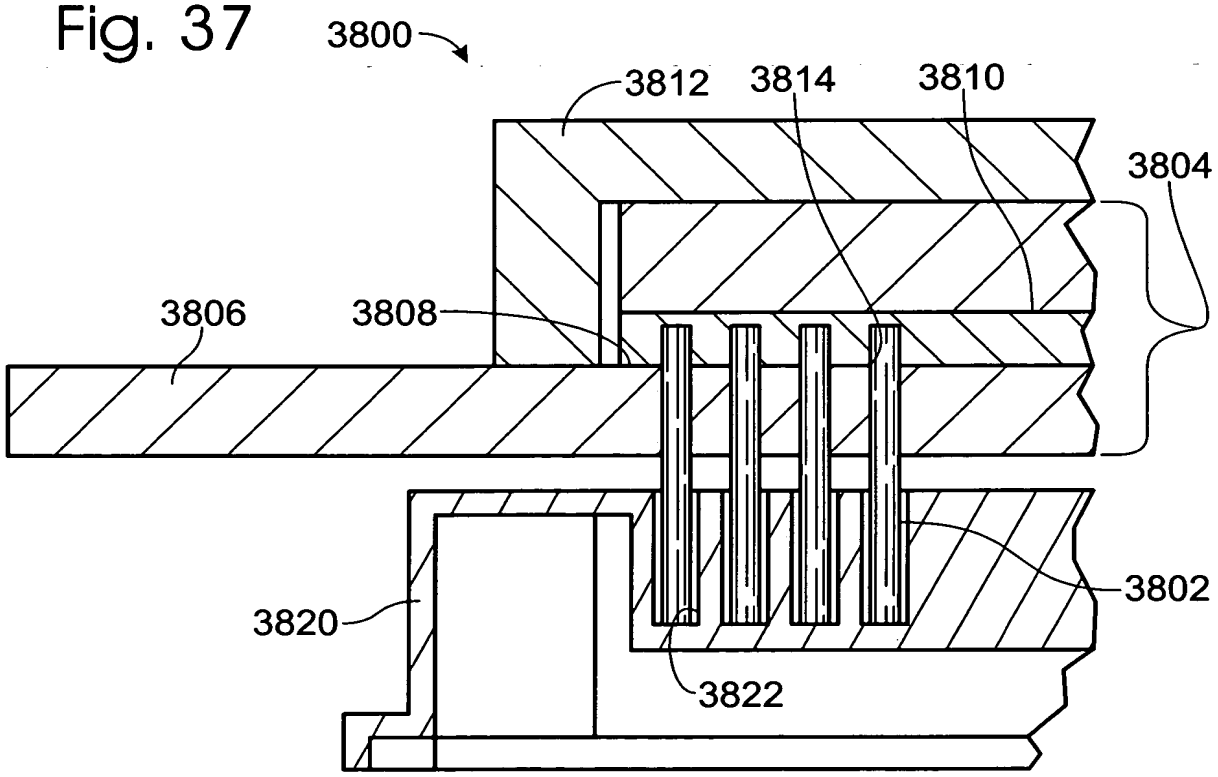

37
37
3820
3830
3800

Fig. 37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3812
3814
3810
3804
3806
3808
3802
3820
3822

Fig. 38

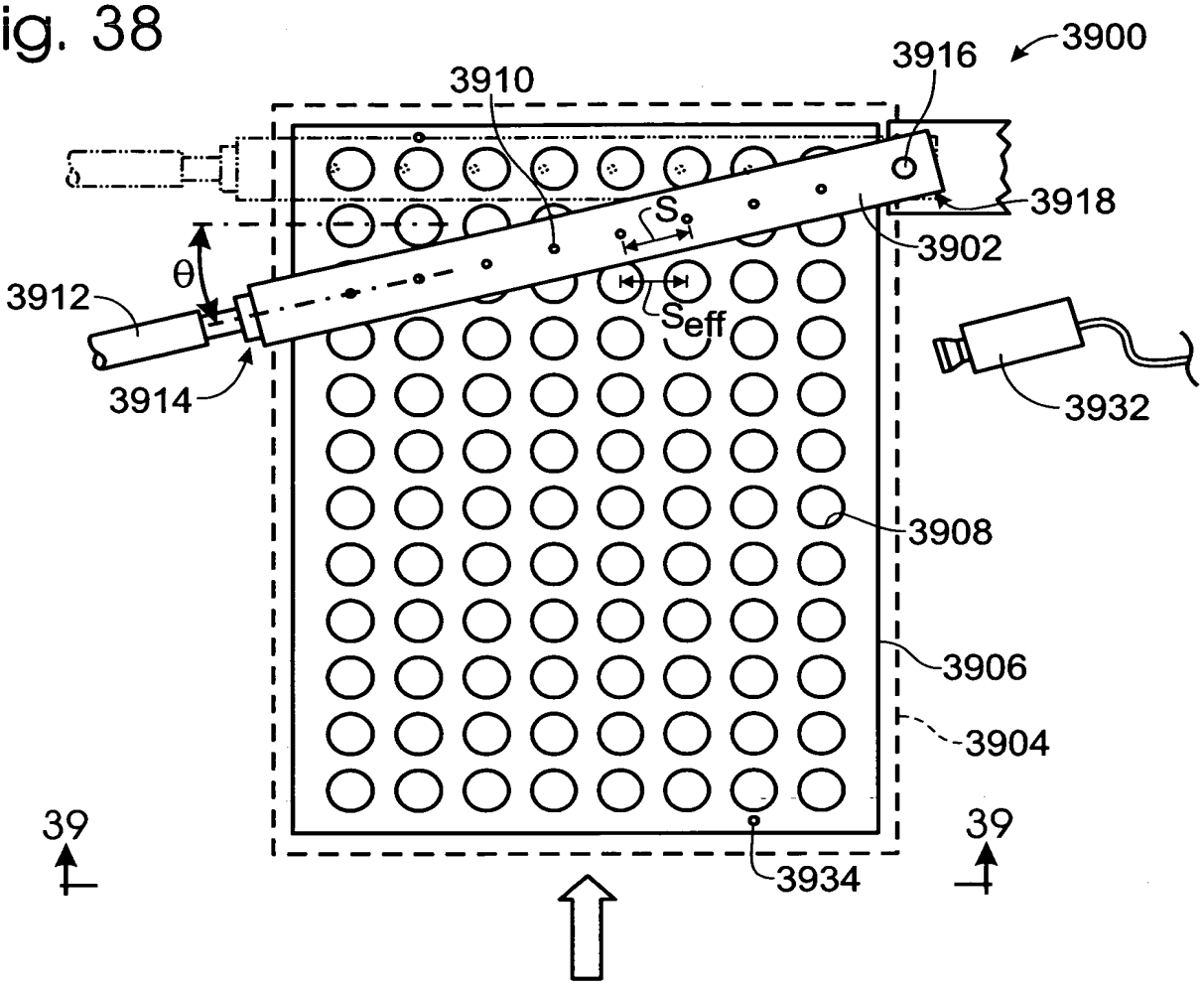
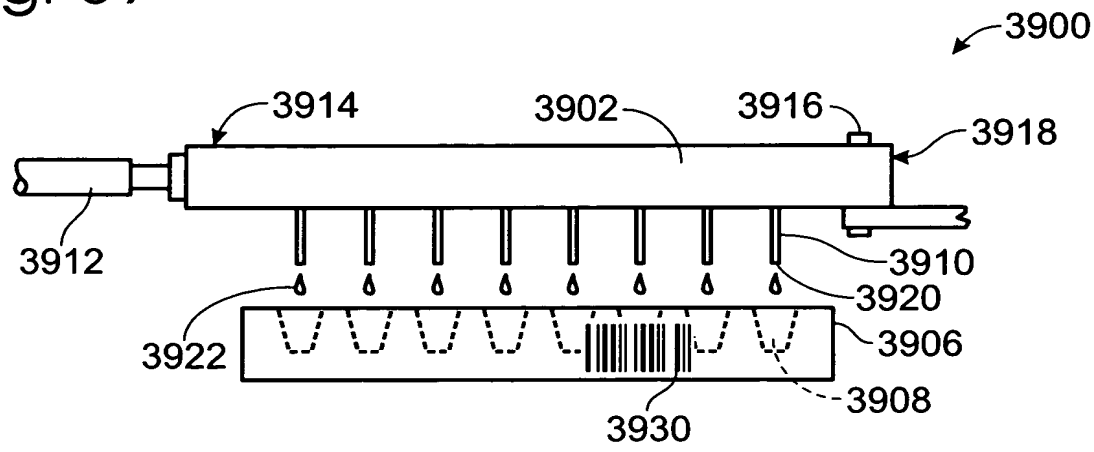

3900
3916
3910
3918
3902
S
θ
3912
Seff
3914
3932
3908
3906
3904
39
39
3934

Fig. 39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3910
3920
3922
3906
3908
3930

Fig. 40

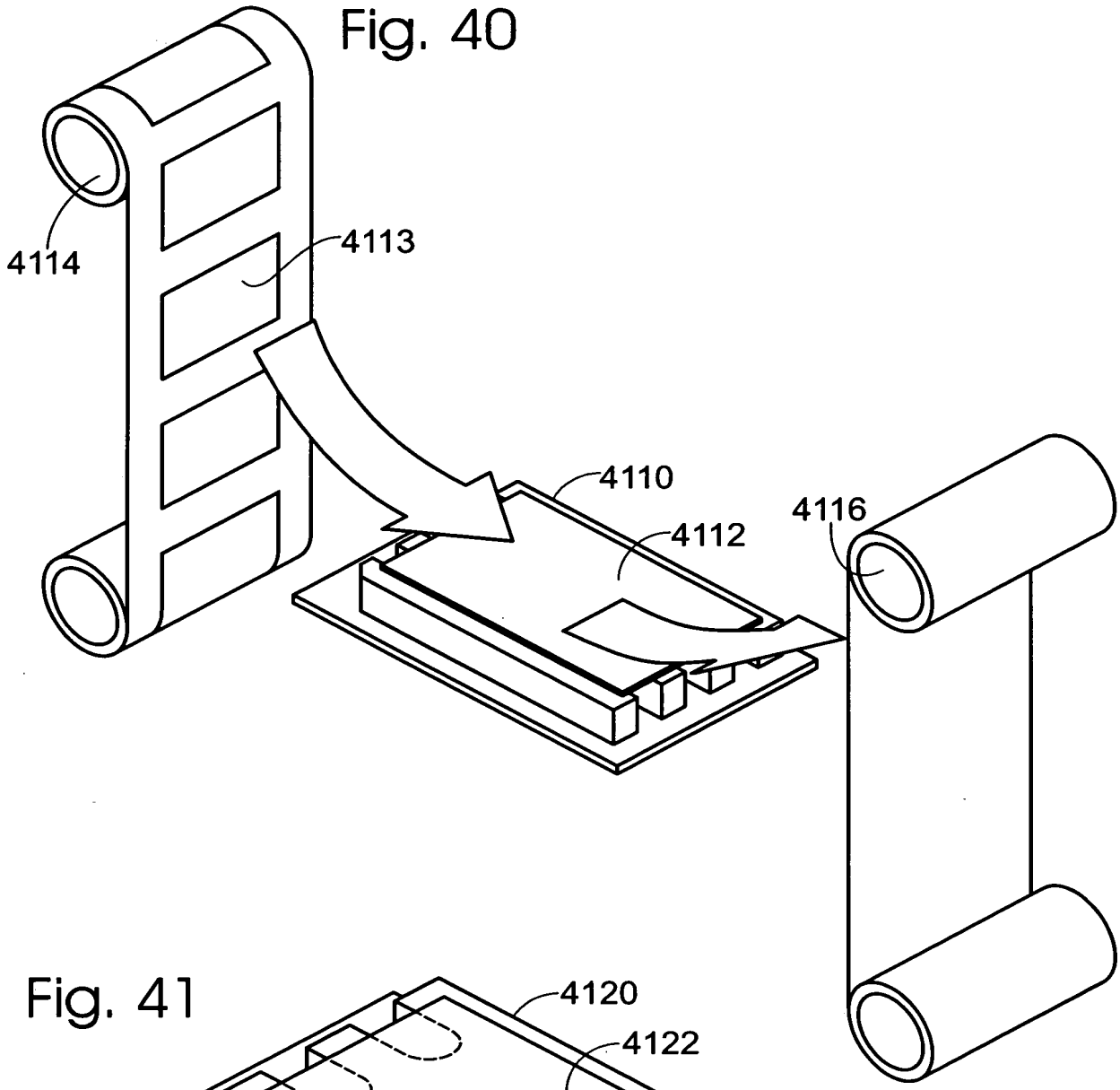


Fig. 41

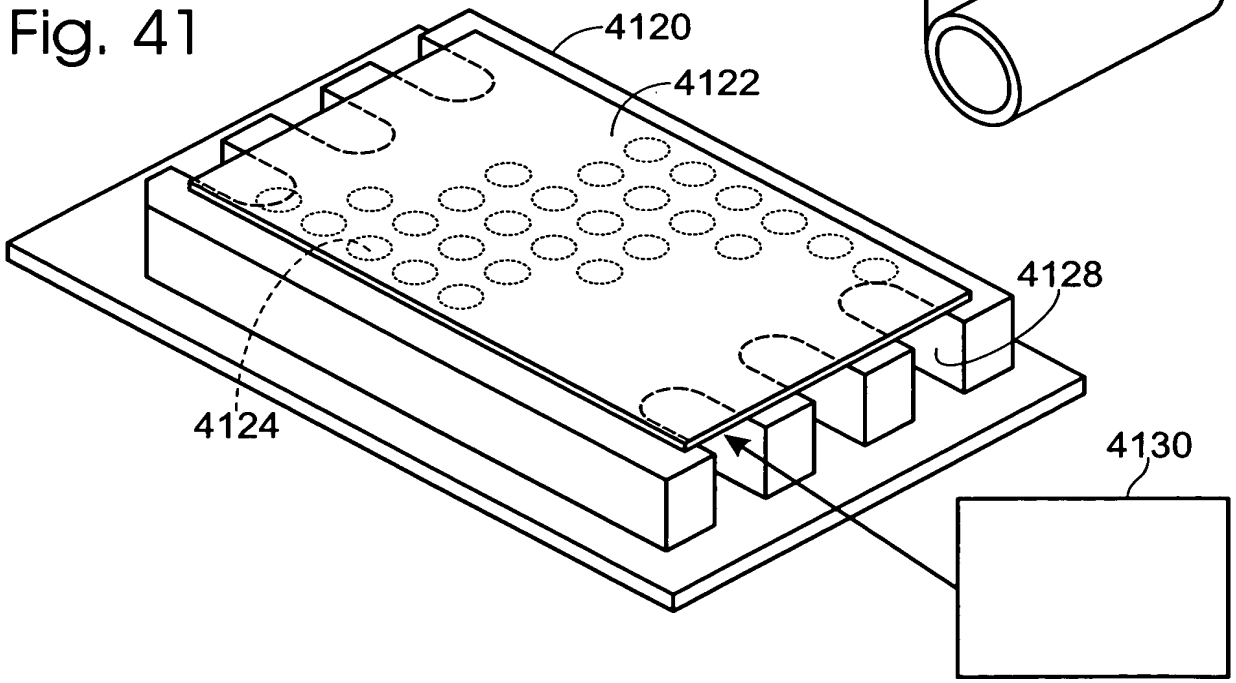


Fig. 42

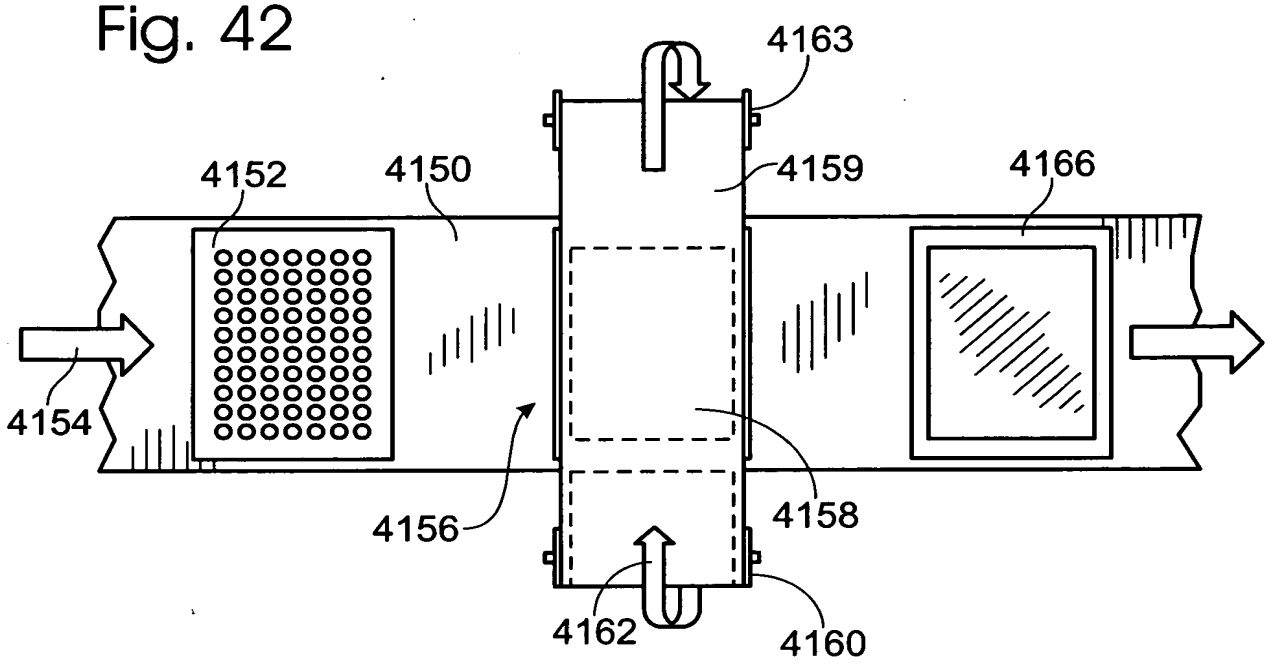
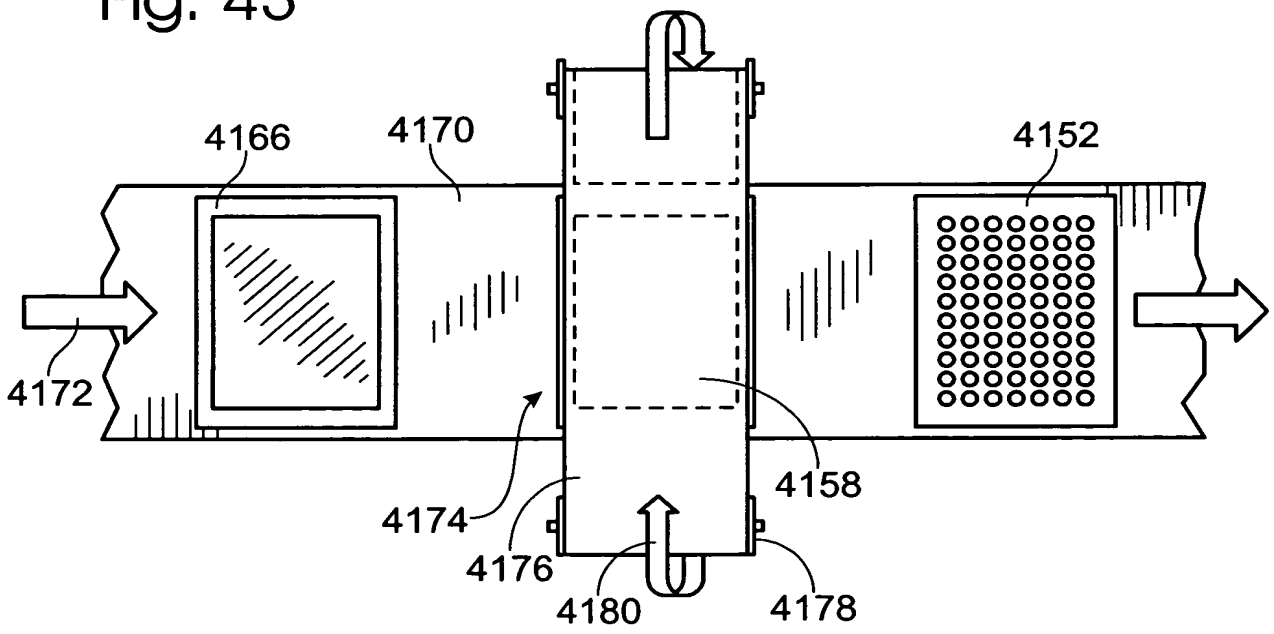

4163
4152
4150
4159
4166
4154
4156
4158
4162
4160

Fig. 43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4170
4152
4172
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4176
4180
4178

Fig. 44

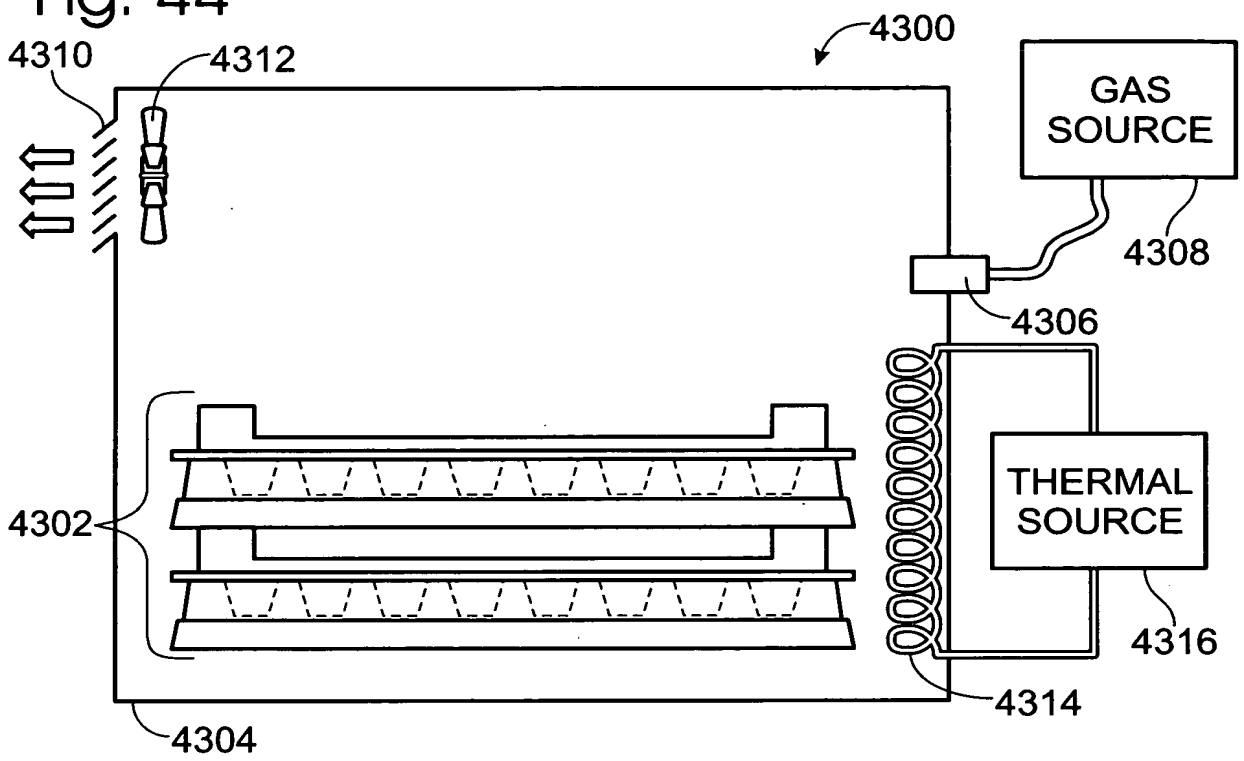


Fig. 45

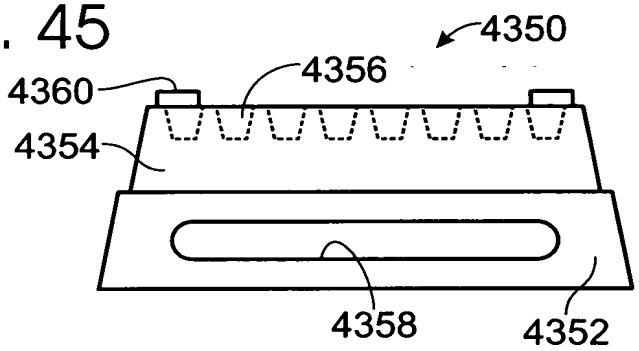


Fig. 46

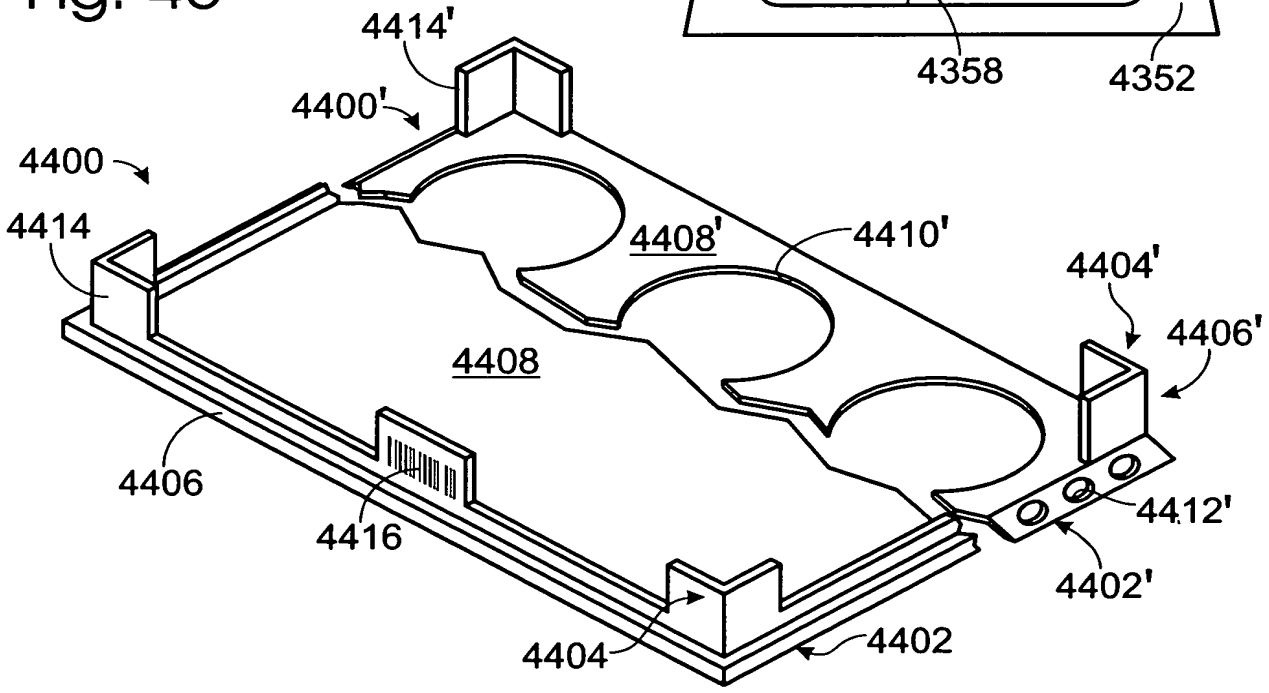
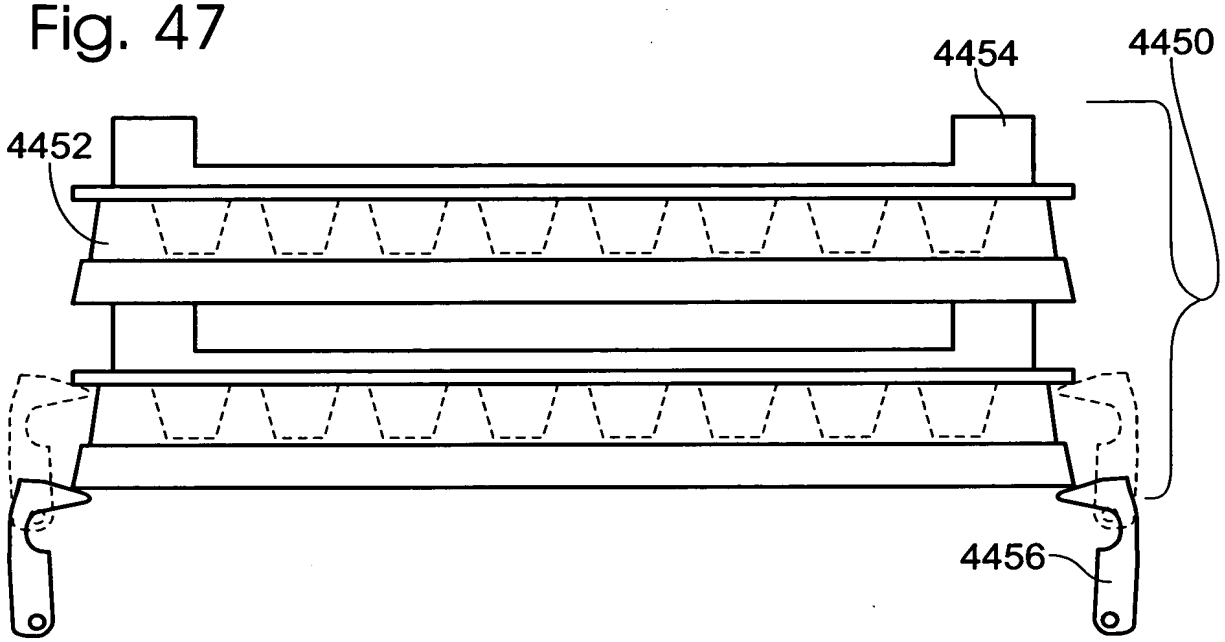


Fig. 47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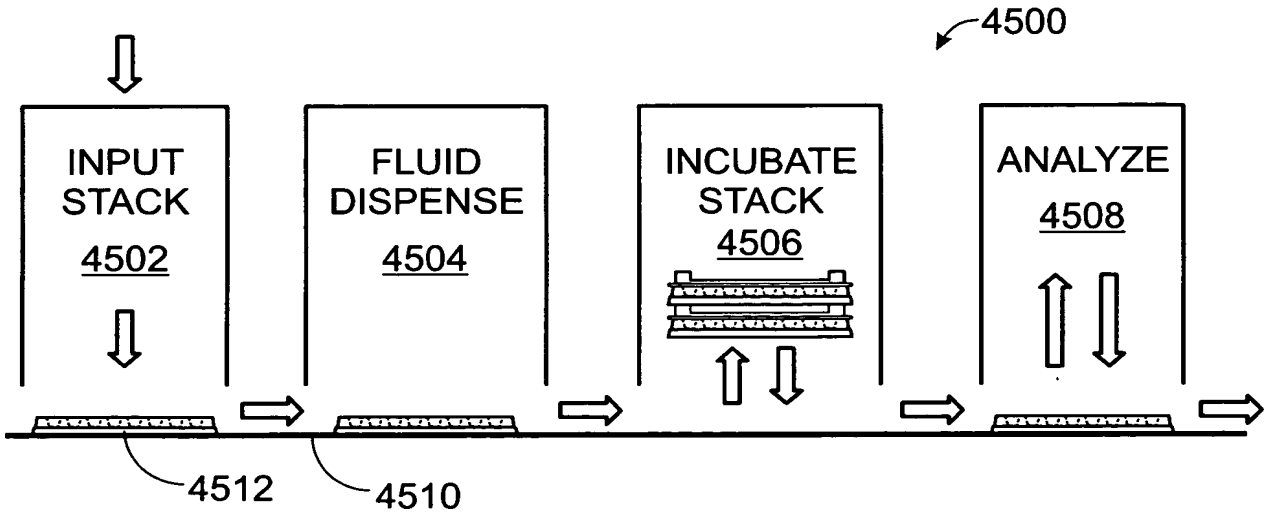
4450
4452
4456

Fig. 48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INPUT STACK
4502
FLUID DISPENSE
4504
INCUBATE STACK
4506
ANALYZE
4508
4512
4510

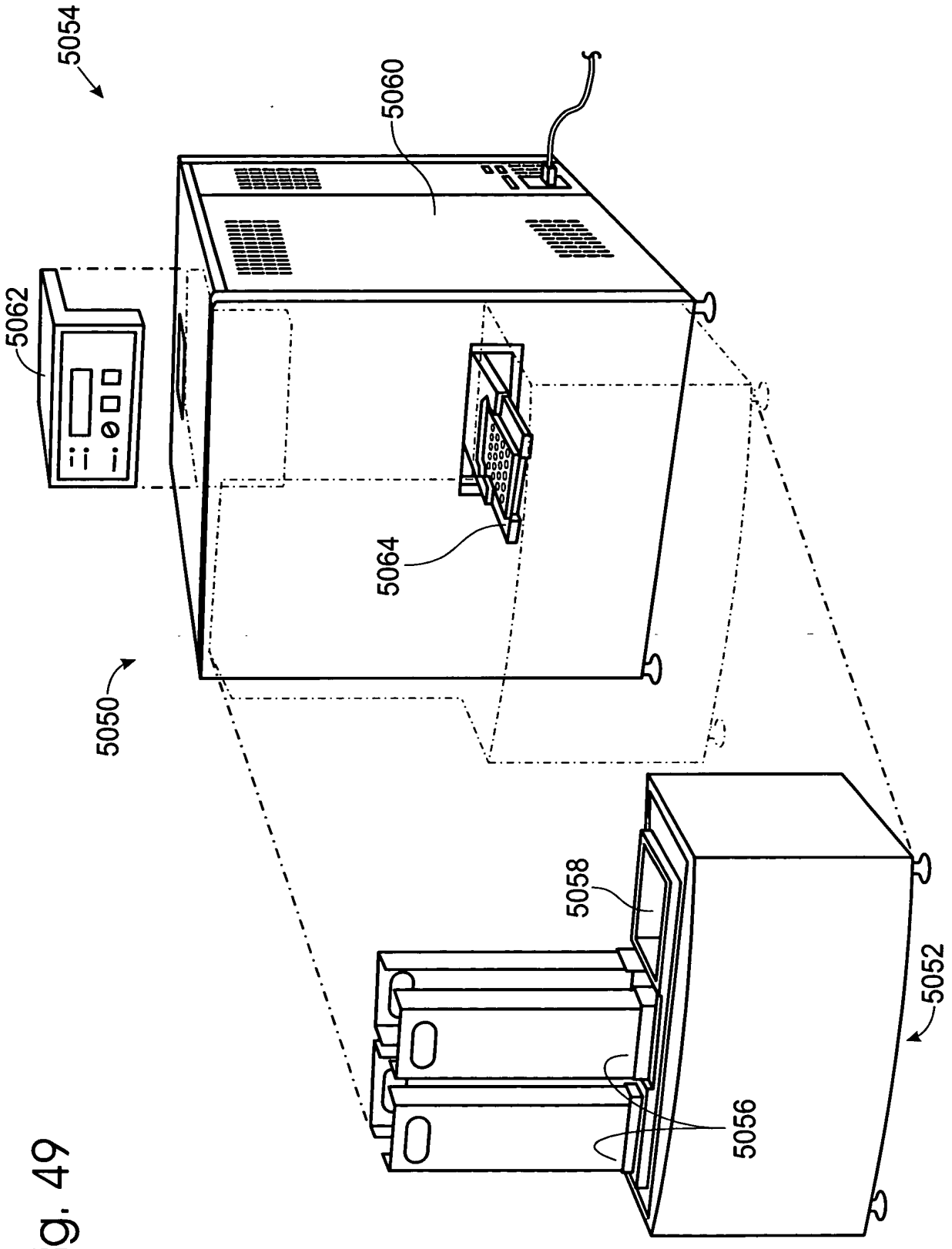


Fig. 49

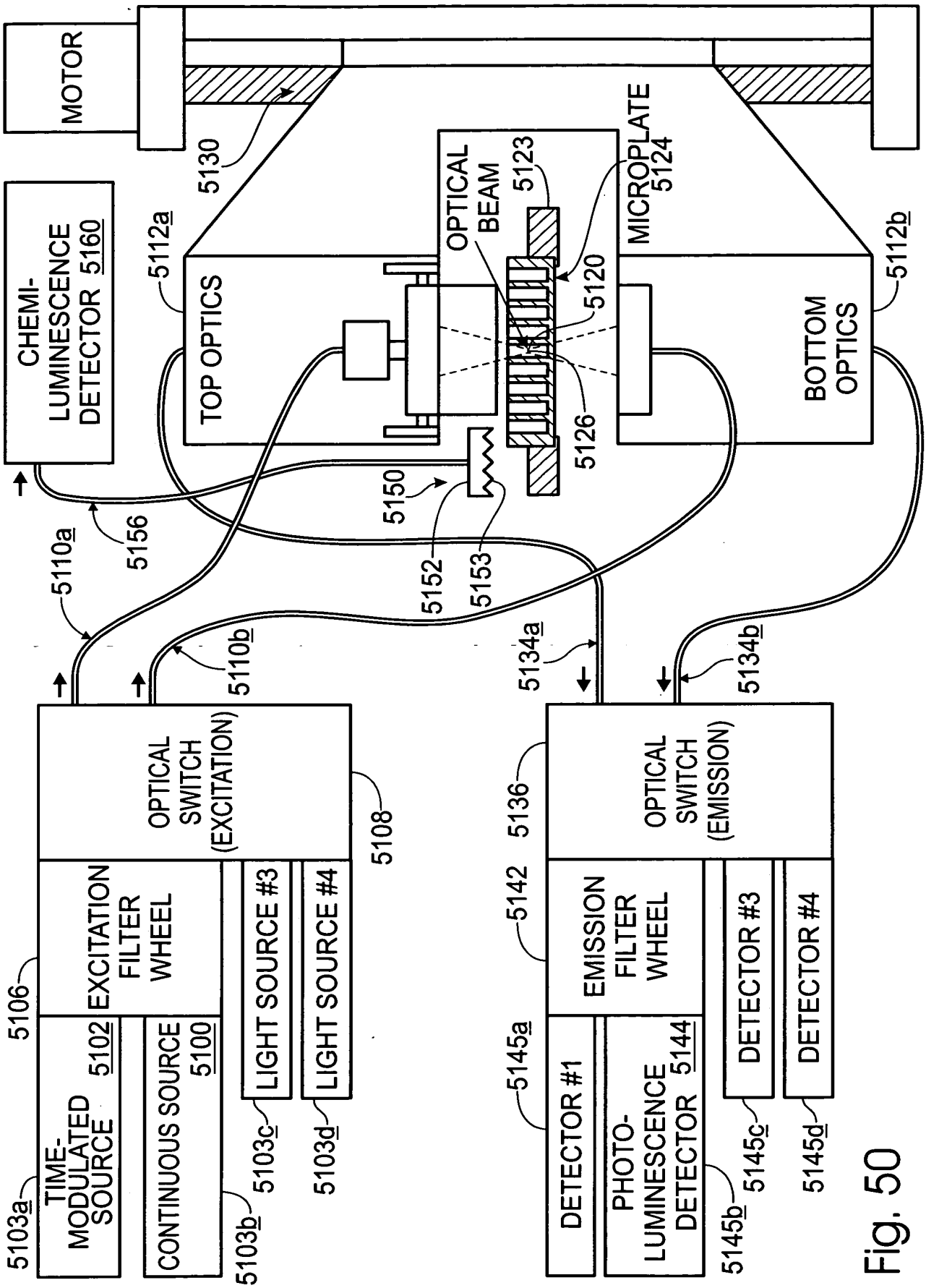
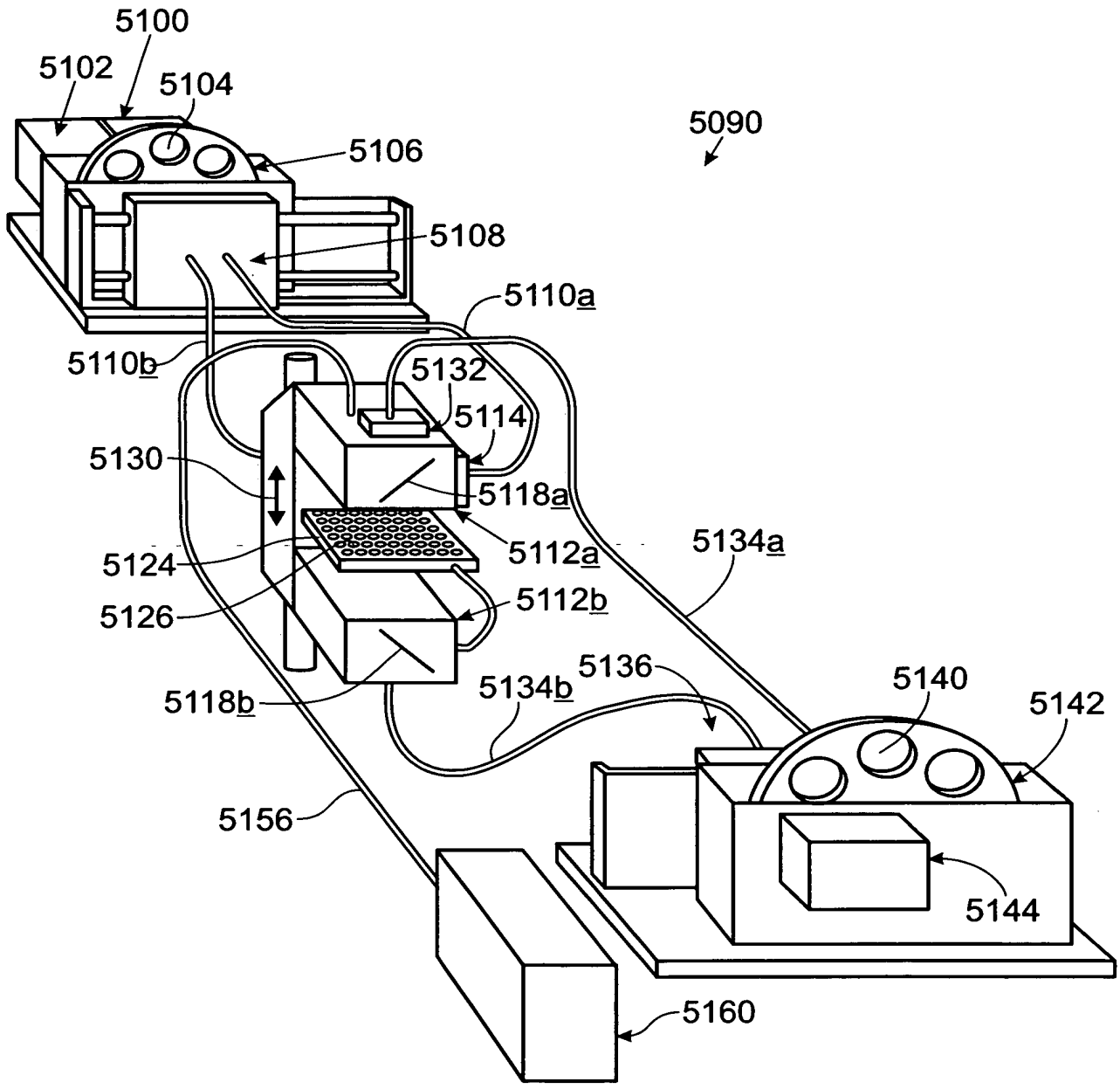

MOTOR
5130
CHEMI-LUMINESCENCE DETECTOR 5160
5112a
TOP OPTICS
OPTICAL BEAM
5123
MICROPLATE 5124
5120
5126
BOTTOM OPTICS
5112b
5150
5152
5153
5156
5110a
5110b
5134a
5134b
5103a
TIME-MODULATED SOURCE 5102
CONTINUOUS SOURCE 5100
5106
EXCITATION FILTER WHEEL
LIGHT SOURCE #3
LIGHT SOURCE #4
5103b
5103c
5103d
OPTICAL SWITCH (EXCITATION)
5108
5136
OPTICAL SWITCH (EMISSION)
5142
EMISSION FILTER WHEEL
5145a
DETECTOR #1
PHOTO-LUMINESCENCE DETECTOR 5144
5145b
DETECTOR #3
DETECTOR #4
5145c
5145d

Fig. 50

Fig. 51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5118a
5112a
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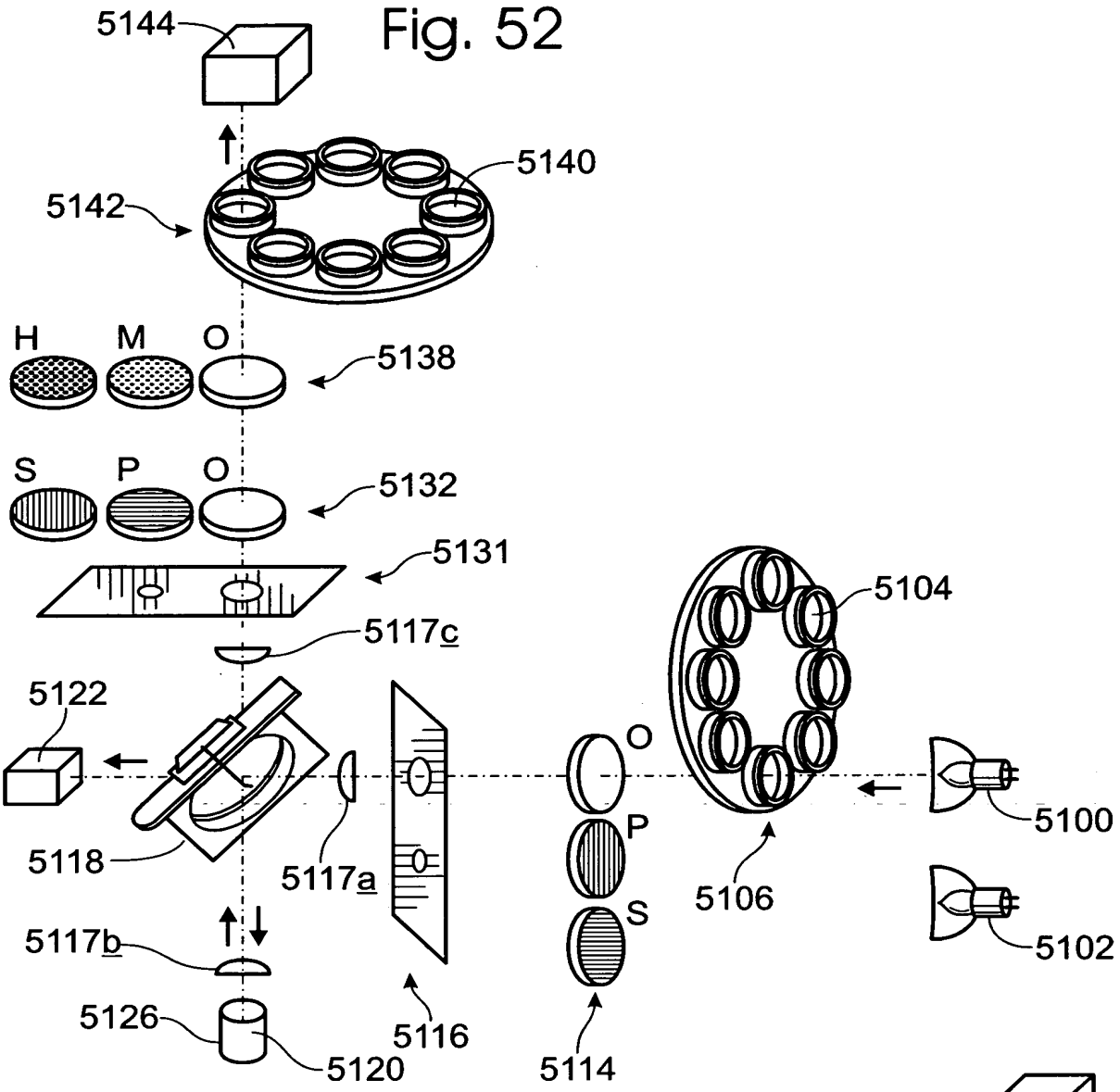
5126
5112b
5136
5140
5142
5118b
5134b
5156
5144
5160

Fig. 52


5144
5140
5142
H
M
O
5138
S
P
O
5132
5131
5117c
5122
5118
5117a
5117b
5126
5120
5116
O
P
S
5114
5104
5106
5100
5102

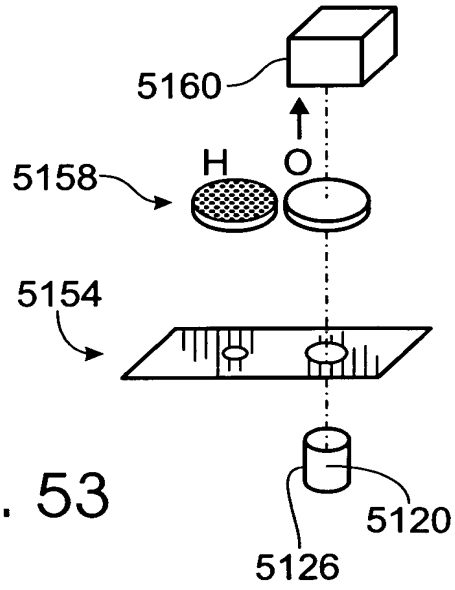
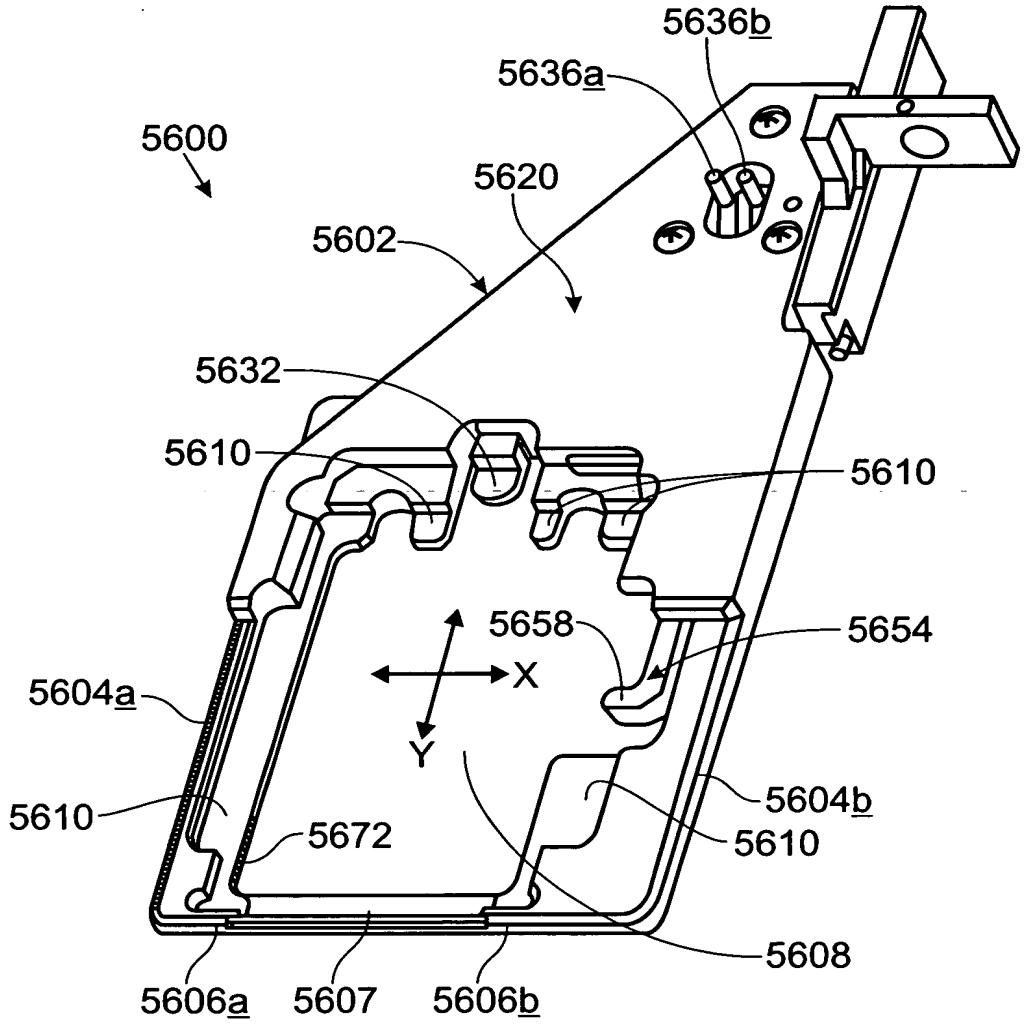

5160
5158
H
O
5154
5120
5126

Fig. 53

Fig. 54


5636b
5636a
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5620
5602
5632
5610
5610
5658
5654
X
Y
5604a
5610
5672
5604b
5610
5608
5606a
5607
5606b

Fig. 55

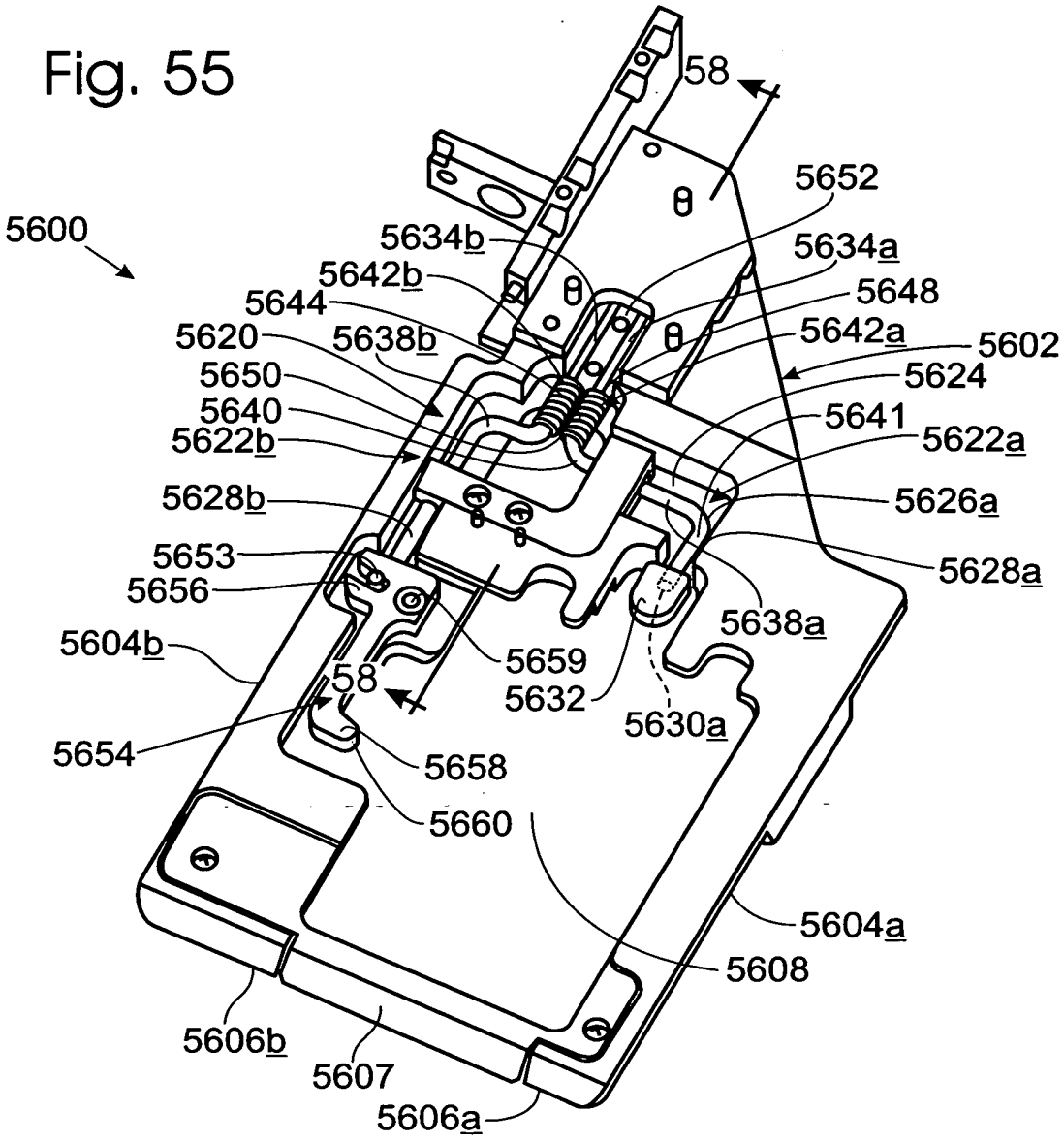
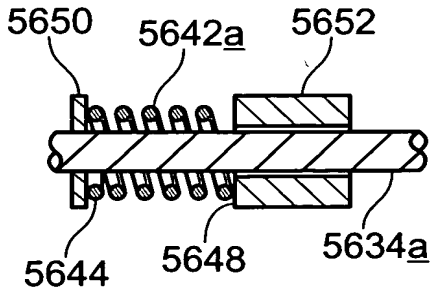
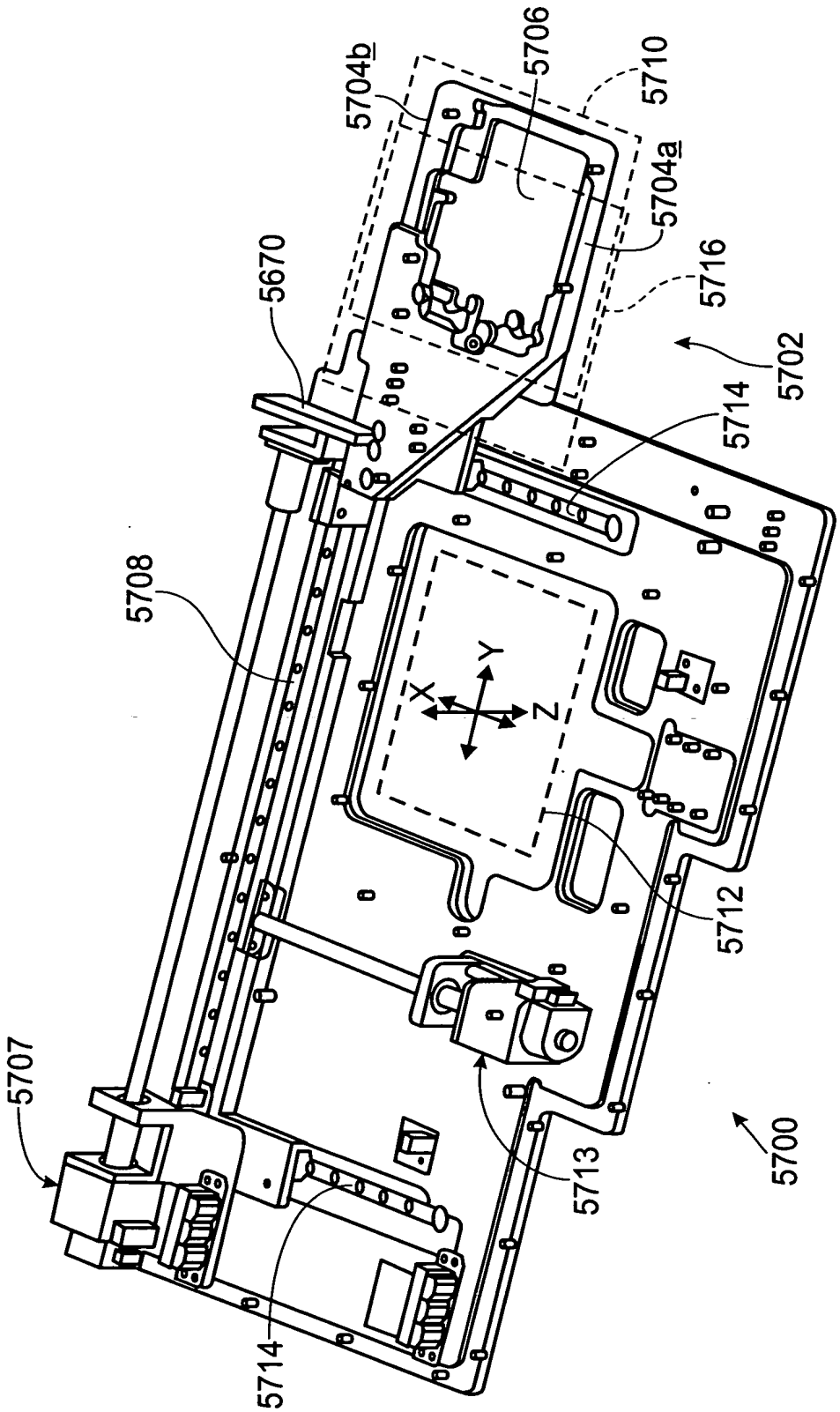

5600
58
5652
θ
5634b
5634a
5642b
5644
5620
5638b
5650
5640
5622b
5628b
5653
5656
5604b
5654
5658
5660
5606b
5607
5606a
5659
5632
5630a
5638a
5648
5642a
5602
5624
5641
5622a
5626a
5628a
5604a
5608

Fig. 56


5650
5642a
5652
5644
5648
5634a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5706
5710
5704a
5670
5716
5702
5714
5708
Y
X
Z
5712
5707
5713
5700
5714

Fig. 57